

## VM-BOX

10 sizes from 5X3X3 to 7X7X6 inches  
NEMA/CSA small multipurpose boxes for in- and outdoor applications:

- Electrical control devices - push button stations, relays, switches, sensors, definite purpose contactors, IEC controls.
- Instrumentation - thermostats, counters, meters, timers and pneumatic controls.
- Industrial controls - Electro-mechanical, pneumatic, hydraulic, pump and valve controls
- Customized engineered solutions

Base is made of VALOX® crystalline thermoplastic polyester.  
Cover is injection moulded in either light grey or clear polycarbonate

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## MultiBox



### Small multipurpose boxes

Wide range of small to medium size multipurpose boxes for in- and outdoor applications.

- Automation and control applications in industry, machinery, toolshop and OEM.
- Electronic applications in data and telecom industry.
- As commercial and industrial power distribution boxes.

All boxes are made from polystyrene or glass-fibre reinforced polycarbonate, offering a high protection degree of IP66 with mechanical impact strength of IK07 for polystyrene and IK08 for polycarbonate.

MultiBox enclosures can be easily modified and/or customized (coloured, printed, with cut-outs...)

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## VJ-BOX



### Polyester NEMA sized boxes

Seven NEMA sized boxes according to the Joint

Industrial Council (JIC) for in- and outdoor applications.




























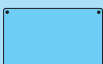

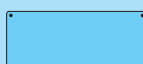
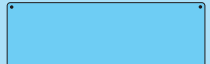
- Automation and control applications in oil and steel industry, petrochemical plants, breweries.
- Applications in utilities such as public lighting, traffic control, signalisation.
- For installation in aggressive environments such as shipyards, offshore oil production platforms, mining sites.

All boxes are made of hot moulded, glass-fibre reinforced polyester, offering a high protection degree of IP67/IP66 with a mechanical impact strength of IK10.

VJ-Boxes can be readily worked with conventional tools such as drills, cutting mills, saws, punches, etc.

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# Overview Insulated Boxes

VM	MultiBox IP66	VJ-BOX IP67/IP66	APO IP67
<p>VM53</p>  <p>119 x 69 x 77/102 mm 4.7 x 2.7 x 3.0/4.0 inches</p>	<p>MB11</p>  <p>65 x 65 x 57/81 mm. 2.6 x 2.6 x 2.2/3.2 inches</p>	<p>VJ606</p>  <p>186 x 186 x 126 mm. 7.3 x 7.3 x 5.0 inches</p>	<p>A1-706</p>  <p>185 x 150 x 130 mm. 7.3 x 5.9 x 5.1 inches</p>
<p>VM55</p>  <p>119 x 119 x 77/102 mm 4.7 x 4.7 x 3.0/4.0 inches</p>	<p>MB21</p>  <p>94 x 65 x 57/81 mm. 3.7 x 2.6 x 2.2/3.2 inches</p>	<p>VJ806</p>  <p>236 x 186 x 126 mm. 9.3 x 7.3 x 5.0 inches</p>	<p>A31-1207</p>  <p>300 x 185 x 175 mm. 11.8 x 7.3 x 6.9 inches</p>
<p>VM75</p>  <p>169 x 119 x 77/102/128 mm 6.7 x 4.7 x 3.0/4.0/5.0 inches</p>	<p>MB22</p>  <p>94 x 94 x 57/81 mm 3.7 x 3.7 x 2.2/3.2 inches</p>	<p>VJ1008</p>  <p>287 x 236 x 138/176 mm. 11.3 x 9.3 x 5.4/6.9 inches</p>	<p>A41-1212</p>  <p>300 x 300 x 175 mm. 11.8 x 11.8 x 6.9 inches</p>
<p>VM77</p>  <p>169 x 169 x 77/128/153 mm 6.7 x 6.7 x 3.0/5.0/6.0 inches</p>	<p>MB33</p>  <p>110 x 110 x 66/90 mm. 4.3 x 4.3 x 2.6/3.5 inches</p>	<p>VJ1210</p>  <p>338 x 287 x 142/180 mm. 13.3 x 11.3 x 5.6/7.1 inches</p>	<p>A71-1412</p>  <p>370 x 300 x 175 mm. 14.6 x 11.8 x 6.9 inches</p>
	<p>MB42</p>  <p>130 x 94 x 57/81 mm. 5.1 x 3.7 x 2.2/3.2 inches</p>	<p>VJ1412</p>  <p>389 x 338 x 170/208 mm. 15.3 x 13.3 x 6.7/8.2 inches</p>	<p>A51-1912</p>  <p>485 x 300 x 175 mm. 19.1 x 11.8 x 6.9 inches</p>
	<p>MB44</p>  <p>130 x 130 x 75/99 mm. 5.1 x 5.1 x 3.0/3.9 inches</p>	<p>VJ1614</p>  <p>440 x 389 x 170/208 mm. 17.3 x 15.3 x 6.7/8.2 inches</p>	<p>A81-2212</p>  <p>555 x 300 x 175 mm. 21.9 x 11.8 x 6.9 inches</p>
	<p>MB52</p>  <p>180 x 94 x 57/81 mm. 7.1 x 3.7 x 2.2/3.2 inches</p>	<p>VJ1816</p>  <p>491 x 440 x 243 mm. 19.3 x 17.3 x 9.6 inches</p>	<p>A61-2412</p>  <p>600 x 300 x 175 mm. 23.6 x 11.8 x 6.9 inches</p>
	<p>MB53</p>  <p>180 x 110 x 90/111/165 mm. 7.1 x 4.3 x 3.5/4.4/6.5 inches</p>		<p>A11-2414</p>  <p>600 x 370 x 175 mm. 23.6 x 14.6 x 6.9 inches</p>
	<p>MB65</p>  <p>182 x 180 x 90/111/165/215 mm. 7.2 x 7.1 x 3.5/4.4/6.5/8.5 inches</p>		<p>A12-2424</p>  <p>600 x 600 x 175 mm. 23.6 x 23.6 x 6.9 inches</p>
	<p>MB75</p>  <p>254 x 180 x 90/111/165/215 mm. 10.0 x 7.1 x 3.5/4.4/6.5/8.5 inches</p>		
	<p>MB87</p>  <p>361 x 254 x 111/165/215 mm. 14.2 x 10.0 x 4.4/6.5/8.5 inches</p>		

## Applications

- (include but not limited to:)
- Electrical control devices – push button stations, relays, switches, sensors, definite purpose contactors, IEC controls.
  - Instrumentation – thermostats, counters, meters, timers and pneumatic controls.
  - Industrial controls – Electro-mechanical, pneumatic, hydraulic, pump and valve controls
  - Customized engineered solutions

## Sizes

- 10 sizes from 5X3X3 to 7X7X6 inches.

## Standards

- CSA certified Type 2, 3, 4 & 5
- NEMA/CEMA rated 3, 3R, 4, 4X, 12 and 13
- IEC 529 rated IP 66-11
- CONSTRUCTION
- Base is made of VALOX® crystalline thermoplastic polyester. VALOX® resin offers a performance profile engineered for demanding end-use environments
- Cover is injection moulded in either light grey or clear polycarbonate

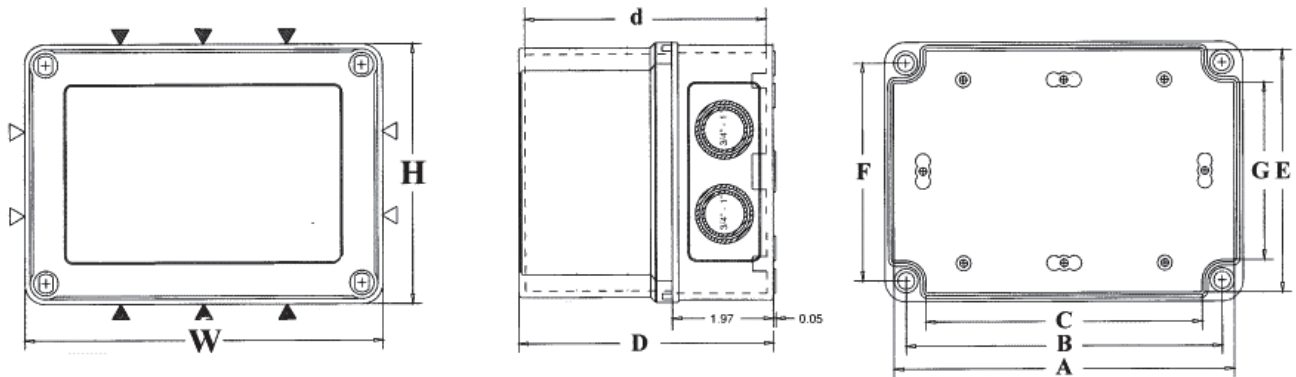
## Accessories

- Back panels, DIN rails, hinged window kits

**Quick Reference Guide**

Opaque Cover		Clear Cover		Inside Dimensions			Outside Dimensions			Back Plate	DIN-RAILS	
w/o knockouts	w/ knockouts	w/o knockouts	w/ knockouts	Height	Width	Depth	Height	Width	Depth		Short side	Long side
VM533	VM533K	VM533CT	VM533CTK	4,69	2,72	2,72	5,03	3,06	3,02	VMBP53	DRS533	DRL533
				119	69	69	128	78	77			
VM534	VM534K	VM534CT	VM534CTK	4,69	2,72	3,72	5,03	3,06	4,02	VMBP53	DRS534	DRL534
				119	69	94	128	78	102			
VM553	VM553K	VM553CT	VM553CTK	4,69	4,69	2,72	5,03	5,03	3,02	VMBP55	DRS553	DRL553
				119	119	69	128	128	77			
VM554	VM554K	VM554CT	VM554CTK	4,69	4,69	3,72	5,03	5,03	4,02	VMBP55	DRS554	DRL554
				119	119	94	128	128	102			
VM753	VM753K	VM753CT	VM753CTK	6,65	4,69	2,72	7	5,03	3,02	VMBP75	DRS753	DRL753
				169	119	69	178	128	77			
VM754	VM754K	VM754CT	VM754CTK	6,65	4,69	3,72	7	5,03	4,02	VMBP75	DRS754	DRL754
				169	119	94	178	128	102			
VM755	VM755K	VM755CT	VM755CTK	6,65	4,69	4,72	7	5,03	5,02	VMBP75	DRS755	DRL755
				169	119	120	178	128	127			
VM773	VM773K	VM773CT	VM773CTK	6,65	6,65	2,72	7	7	3,02	VMBP77	DRS773	DRL773
				169	169	69	178	178	77			
VM775	VM775K	VM775CT	VM775CTK	6,65	6,65	4,72	7	7	5,02	VMBP77	DRS775	DRL775
				169	169	120	178	178	127			
VM776	VM776K	VM776CT	VM776CTK	6,65	6,65	5,72	7	7	6,02	VMBP77	DRS776	DRL776
				169	169	145	178	178	153			

NOTE: -  Millimeters



Size	A	B	C	E	F	G	H	W	D	Knockouts		
										Top	Side	
VM533	4.69	119.03	4.21	188.11	2.24	56.85	5.03	127.83	3.02	76.67	2	1
VM534									4.02	102.02		
VM553									3.02	76.67	3	2
VM554									4.02	102.02		
VM753	6.65	168.77	6.18	188.11	2.24	56.85	7.00	177.83	3.02	76.67	3	2
VM754									4.02	102.02		
VM755									5.02	127.42	3	3
VM773									3.02	76.67		
VM775	6.65	168.77	6.18	188.11	2.24	56.85	7.00	177.83	5.02	127.42	3	3
VM776									6.02	152.83		

NOTE: - Millimeters

Window Type	Part Number	Dimensions									
		Overall				Viewing Area				Height	
		Length		Width		Length		Width			
		in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
Standard Hinged Window	VM-CTF53	5,12	130	3,03	77	4,41	112	1,97	50	0,79	20
	VM-CTF73	6,42	163			5,71	145				
Standard Spring Hinged Window	VM-CTFS53	5,12	130			4,41	112				
	VM-CTFS73	6,42	163			5,71	145				
Raised Cover Hinged Window	VM-CTH53	5,12	130	4,41	112	1,26	32				
	VM-CTH73	6,42	163	5,71	145						
Raised Cover Window with Spring Hinge	VM-CTHS53	5,12	130	4,41	112						
	VM-CTHS73	6,42	163	5,71	145						

# Specifications for Tender



**VM Series**

- The range comprises 10 different basic box sizes, from 119 x 69 mm up to 169 x 169 mm, with up to 4 different cover depths and two designs:
  - with opaque cover
  - with clear cover
- They are suitable for applications that require light weight and durability.
- The base is manufactured from VALOX crystalline thermoplastic polyester.
- VALOX crystalline thermo-plastic polyester bases come with smooth side walls or with several Metric knock-outs.
- Cover is injection moulded in either light grey or clear polycarbonate
- The lid is fixed to the base by means of cover screws in polyamide.
- VALOX crystalline thermo-plastic polyester boxes can withstand temperatures from -35°C up to 120°C
- The box offers maximum protection to the user and the equipment by means of total insulation and a protection degree as per IEC 60529 and also complies with the impact resistance standard as per EN 50102.
- This protection covers the total volume of the enclosure according to EN 50298.
- Boxes are corrosion-resistant and do not require any maintenance.
- Materials are halogen-free polycarbonate and low-halogen polystyrene.
- Boxes are self-extinguishing according UL94-V2.
- Boxes offer high resistance to chemical and aggressive influences.
- The box is secured to the wall by screws directly through the base, direct through the four corner shafts of the base (under the cover screws) or by using external mounting brackets.
- Boxes may be fitted with external hinges and/or padlocking as a protection against unauthorised access.
- It is possible to mount DIN profiles as well as mounting plates.
- Boxes bear the CSA approval.
- Tailor-made boxes are available upon request: coloured, painted, overprinted, machine finished, EMC shielded.



**VJ Series**

- Polyester NEMA sized boxes
- Boxes are designed in accordance with the "Joint Industrial Council" (JIC) - USA.
  - The range consists of seven different sizes ranging from 186 x 186 mm (6 x 6 inch) to 491 x 440 mm (18 x 16 inch) in three designs:
    - with screwed lid
    - with stainless steel hinges
    - with plastic hinges.
  - The base and the lid are made of self-extinguishing, glass-fibre-reinforced and halogenfree polyester, dyed in mass RAL 7036 (dark grey).
  - The glass-fibre content is a minimum of 20%.
  - The base also comes with four threaded inserts - M4 for securing a mounting plate.
  - Boxes can withstand an ambient temperature of - 50° to +150°C.
  - The box offers maximum protection to the user and equipment thanks to the total insulation and the IP67/IP66 protection degree as per IEC 60529. It also complies with impact resistance degree IK10 as per EN 50102.
  - This protection covers the total volume, protected space, of the box according to EN 50298.
  - Boxes are corrosion-resistant and do not require any maintenance.
  - The base is fitted with moulded-in mounting brackets suitable for external mounting.
  - Boxes have the UL certification mark, as per UL standard 508 types 3, 3R, 3S, 4, 4X, 6, 12 and 13.
  - They also comply with CSA certification mark as per C22.2 no. 94 types 3, 3R, 3S, 4, 4X, 6, 12 and 13.
  - Boxes also bear the following certification mark: AS Australian Standards 3132-1991.