

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.




























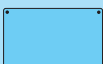

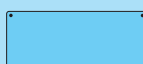

- Automation and control applications in oil and steel industry, petrochemical plants, breweries.
- Applications in utilities such as public lighting, traffic control, signalisation.
- For installation in aggressive environments such as shipyards, offshore oil production platforms, mining sites.

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>		



Polyester NEMA sized boxes




Applications

- Industry
- Steel works
- Oil refineries
- Petrochemical plants
- Breweries
- Shipyards
- Public utilities

Standards

IEC 60439-1	IEC 60529
EN 60439-1	EN 60529
EN 50298	

Approvals

-  UL types 3, 3R, 3S, 4, 4X, 6, 12 and 13
-  CSA types 3, 3R, 3S, 4, 4X, 6, 12 and 13
-  AS 3132-1991 (Australian Standards)

Features





- VJ-boxes are designed in accordance with the Joint Industrial Council (JIC) - USA.
- The VJ-range consists of seven box sizes in three versions:
 - with screw cover
 - with stainless steel hinges
 - with plastic hinges
- The bases and covers are made of grey (RAL 7036), hot moulded, glass fibre reinforced polyester, dyed in mass. They come complete with 4 threaded inserts (Dodge) for fixing a mounting plate.
- Gaskets that guarantee an optimal tightness degree, are made of polyurethane foam.
- All fixing hardware is made of stainless steel.
- The box can be readily worked with conventional tools, such as drills, cutting mills, saws, punches, etc.
- Versatile service conditions: polyester enclosures can withstand continuous temperatures up to 70°C (158°F) (peak temperatures up to 150°C or 302°F)
- VJ-boxes provide optimum security to both operators and equipment because they feature total insulation and protection degree IP67/IP66 according to IEC 60529 (IP68 on demand)
- Protection degree IK10 against external mechanical impacts according to EN 50102. This protection degree covers the total volume of the enclosure according to EN 50298.
- VJ polyester boxes are maintenance-free and corrosion resistant.
- Rated insulation voltage $U_i = 1000V$
- VJ-boxes are UL listed, as per UL Standard 508 and CSA approved as per C22.2 nr. 94 types 3, 3R, 3S, 4, 4X, 6, 12 and 13.

Special versions

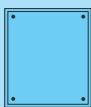
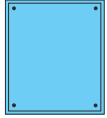
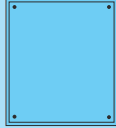


With air vents
With inset polycarbonate window (226 x 175 mm.)

Polyester NEMA sized boxes

						
	Type	VJ 606	VJ 806	VJ 1008	VJ 1210	
	Box with polyester cover □ IP67 ⁽¹⁾ With fixing screws	H x W x D, inch	7.3 x 7.3 x 5.0	9.3 x 7.3 x 5.0	11.3 x 9.3 x 5.4	13.3 x 11.3 x 5.6
		H x W x D, mm	186 x 186 x 126	236 x 186 x 126	287 x 236 x 138	338 x 287 x 142
		Ref. No.	VJ606W	VJ806W	VJ1008W	VJ1210W
		Weight (kg)	1.280	1.500	2.100	2.820
	Box with hinged cover □ IP67 With stainless steel hinges and padlockable latch(es) with twist padlockable quick release latch	H x W x D, inch	7.3 x 7.3 x 5.0	9.3 x 7.3 x 5.0	11.3 x 9.3 x 5.4	13.3 x 11.3 x 5.6
		H x W x D, mm	186 x 186 x 126	236 x 186 x 126	287 x 236 x 138	338 x 287 x 142
		Ref. No.	VJ606HW	VJ806HW	VJ1008HW	VJ1210HW
		Ref. No.	VJ606HWPL	VJ806HWPL	VJ1008HWPL	VJ1210HWPL
		Ref. No.	VJ606HWTPL	VJ806HWTPL	VJ1008HWTPL	VJ1210HWTPL
		Weight (kg)	1.280	1.500	2.100	2.820
	Box with hinged cover □ IP67 With plastic hinges with padlockable latch(es) with twist padlockable quick release latch	H x W x D, inch	7.3 x 7.3 x 5.0	9.3 x 7.3 x 5.0	11.3 x 9.3 x 5.4	13.3 x 11.3 x 5.6
		H x W x D, mm	186 x 186 x 126	236 x 186 x 126	287 x 236 x 138	338 x 287 x 142
		Ref. No.	VJ606NHW	VJ806NHW	VJ1008NHW	VJ1210NHW
		Ref. No.	VJ606NHWPL	VJ806NHWPL	VJ1008NHWPL	VJ1210NHWPL
		Ref. No.	VJ606NHWTPPL	VJ806NHWTPPL	VJ1008NHWTPPL	VJ1210NHWTPPL
		Weight (kg)	1.359	1.579	2.179	2.899
	Box with raised polyester cover □ IP67 ⁽¹⁾ With fixing screws	H x W x D, inch			11.3 x 9.3 x 6.9	13.3 x 11.3 x 7.1
		H x W x D, mm	-	-	287 x 236 x 176	338 x 287 x 180
		Ref. No.	-	-	RVJ1008W	RVJ1210W
		Weight (kg)	-	-	2.220	2.940
	Box with hinged raised cover □ IP67 With stainless steel hinges and padlockable latch(es)	H x W x D, inch			11.3 x 9.3 x 6.9	13.3 x 11.3 x 7.1
		H x W x D, mm	-	-	287 x 236 x 176	338 x 287 x 180
		Ref. No.	-	-	RVJ1008HW	RVJ1210HW
		Ref. No.	-	-	RVJ1008HWPL	RVJ1210HWPL
	Box with hinged raised cover □ IP67 With plastic hinges with padlockable latch(es) with twist padlockable quick release latch	H x W x D, inch			11.3 x 9.3 x 6.9	13.3 x 11.3 x 7.1
		H x W x D, mm	-	-	287 x 236 x 176	338 x 287 x 180
		Ref. No.	-	-	RVJ1008NHW	RVJ1210NHW
		Ref. No.	-	-	RVJ1008NHWPL	RVJ1210NHWPL
		Ref. No.	-	-	RVJ1008NHWTPPL	RVJ1210NHWTPPL
		Weight (kg)	-	-	2.299	3.019
	Mounting plate Aluminum Non-Metallic 3mm / 0.1in. Non-Metallic 6mm / 0.2in. Steel	H x W, inch	4.9 x 4.9	6.8 x 4.9	8.7 x 6.9	10.7 x 8.9
		H x W, mm	124 x 124	172 x 124	222 x 175	273 x 226
		Ref. No.	MP606A	MP806A	MP1008A	MP1210A
		Ref. No.	MP606N	MP806N	MP1008N	MP1210N
		Ref. No.	MP606NT	MP806NT	MP1008NT	MP1210NT
		Ref. No.	MP606S	MP806S	MP1008S	MP1210S

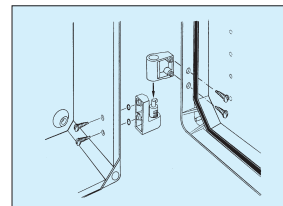
(1) IP68 on request.

		
VJ 1412	VJ 1614	VJ 1816
15.3 x 13.3 x 6.7	17.3 x 15.3 x 6.7	19.3 x 17.3 x 9.6
389 x 338 x 170	440 x 389 x 170	491 x 440 x 243
VJ1412W	VJ1614W	VJ1816W
3.860	4.720	6.240
15.3 x 13.3 x 6.7	17.3 x 15.3 x 6.7	19.3 x 17.3 x 9.6
389 x 338 x 170	440 x 389 x 170	491 x 440 x 243
VJ1412HW	VJ1614HW	VJ1816HW
VJ1412HWPL	VJ1614HWPL	VJ1816HWPL
VJ1412HWTPL	VJ1614HWTPL	VJ1816HWTPL
3.860	4.720	6.240
15.3 x 13.3 x 6.7	17.3 x 15.3 x 6.7	19.3 x 17.3 x 9.6
389 x 338 x 170	440 x 389 x 170	491 x 440 x 243
VJ1412NHW	VJ1614NHW	VJ1816NHW
VJ1412NHWPL	VJ1614NHWPL	VJ1816NHWPL
VJ1412NHWTPPL	VJ1614NHWPL	VJ1816NHWPL
3.939	4.799	6.319
15.3 x 13.3 x 8.2	17.3 x 15.3 x 8.2	19.3 x 17.3 x 11.1
389 x 338 x 208	440 x 389 x 208	491 x 440 x 281
RVJ1412W	RVJ1614W	RVJ1816W
3.980	4.900	6.740
15.3 x 13.3 x 8.2	17.3 x 15.3 x 8.2	19.3 x 17.3 x 11.1
389 x 338 x 208	440 x 389 x 208	491 x 440 x 281
RVJ1412HW	RVJ1614HW	RVJ1816HW
RVJ1412HWPL	RVJ1614HWPL	RVJ1816HWPL
3.980	4.900	6.740
15.3 x 13.3 x 8.2	17.3 x 15.3 x 8.2	19.3 x 17.3 x 11.1
389 x 338 x 208	440 x 389 x 208	491 x 440 x 281
RVJ1412NHW	RVJ1614NHW	RVJ1816NHW
RVJ1412NHWPL	RVJ1614NHWPL	RVJ1816NHWPL
RVJ1412NHWTPPL	RVJ1614NHWTPPL	RVJ1816NHWTPPL
4.059	4.979	6.820
12.8x10.9	14.8x10.9	16.7 x 10.9
324 x 276	375 x 327	425 x 378
MP1412A	MP1614A	MP1618A
MP1412N	MP1614N	MP1618N
MP1412NT	MP1614NT	MP1618NT
MP1412S	MP1614S	MP1618S

Accessories

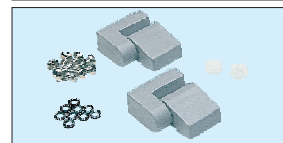
Hinges

The VJ-Box plastic hinges allow the cover to open at an angle exceeding 180°. The cover can be lifted off and reinstalled without the use of a tool, which substantially reduces the operations within the cover. By simply adjusting one of the pivot parts, the cover becomes unremovable.



80200-010 1

Set of 2 pieces



Surface mounted windows¹⁾

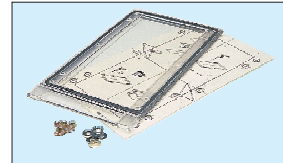
SW97 1

Screwed IP67
H x W = 262 x 211



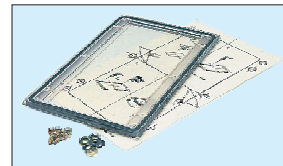
SW64 1

Screwed IP67 with indication strip
H x W = 240 x 139 mm



SW84X 1

Screwed IP67 without indication strip
H x W = 217 x 139 mm.



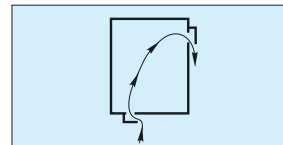
Air vents IP44

Two air vents must be mounted per enclosure to ensure sufficient air circulation and prevent condensation water. Complete with template and screws. The air vents are preferably mounted in the upper and lower part of the box.



10000-010 1

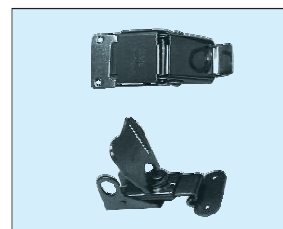
Set of two pieces in polyamide.
RAL 7036



316 stainless steel latches

VJPLX 1

Padlockable latch



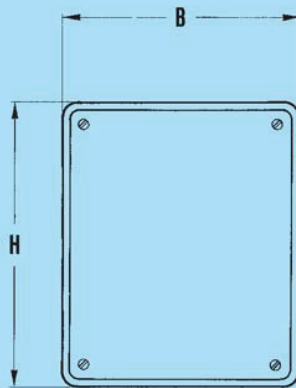
VJTPL 1

Twist padlockable quick release latch

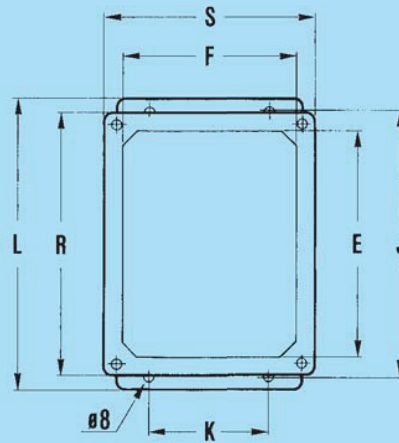
¹⁾ Windows are CSA when factory installed

VJ-Box

Top view-cover



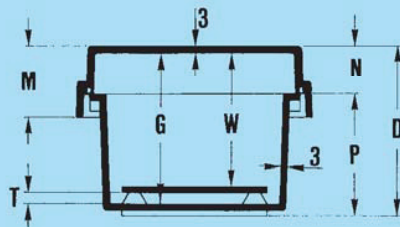
Top view-base



Section



Section



Dimensions, mm

Type	H	B	D	E	F	G	J	K	L	M	N	P	R	S	T	W
VJ606	186	186	126	152	152	118	172	102	191	35	16	110	172	172	10	105
VJ806	236	186	126	203	152	118	222	102	241	35	16	110	222	172	10	105
VJ1008	287	236	138	254	203	130	273	153	292	41	22	116	273	222	10	118
VJ108	287	236	176	254	203	168	273	153	292	80	61	116	273	222	10	156
VJ1210	338	287	142	305	254	133	324	203	343	41	22	120	324	273	10	121
VJ1210	338	287	180	305	254	172	324	203	343	80	61	120	324	273	10	160
VJ1412	389	338	170	356	305	162	375	254	394	44	25	145	375	324	13	146
VJ1412	389	338	208	356	305	200	375	254	394	83	64	145	375	324	13	184
VJ1614	440	389	170	406	356	162	425	305	445	44	25	145	425	375	13	146
VJ1614	440	389	208	406	356	200	425	305	445	83	64	145	425	375	13	184
VJ1816	491	440	243	457	406	235	476	305	495	44	25	218	476	425	13	219

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 halogen-free 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.