



VMGX-2 Technical Specifications

Product Name

Waist High Gate – Model VMGX-2

Manufacturer

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Product Description: The VMGX-2 gate is an electric lock controlled, waist high, self-closing gate. The gate arm swings in both directions. In most applications, the VMGX-2 gate meets the guidelines contained in the Americans with Disabilities Act Accessibility Guidelines (ADAAG) as issued by the Architectural and Transportation Barriers Compliance Board. **Note:** Because of the potential for varying standards, Alvarado makes no representation regarding the compliance of this product with any state or local laws or regulations regarding public access.

The standard VMGX-2 incorporates a gravity closure and an alignment magnet to center the gate arm. The gravity closure is installed in the hinge post and the alignment magnet is installed in the latch post. The following VMGX-2 lock configuration is available:

- **Shear Lock** – Provides 12 VDC electric lock control. The shear lock is only available in a fail-safe (lock disengages when power is removed) configuration.

Materials: All tubing and sheet metal materials meet the appropriate ASTM Standards.

Mechanical Components:

- The **Gate Arm** is a fully welded assembly constructed of cold rolled carbon steel (or #304 SS) tubing. The gate arm assembly consists of a miter cut and welded frame constructed of 2.5" square x 16-gauge cold rolled carbon steel (or #304 SS) tubing with four notched and welded interior vertical pieces constructed of 1" x 2" rectangular x 16 gauge cold rolled carbon steel (or #304 SS) tubing and a 1/8" thick stainless steel kickplate. On the gate arm frame, the vertical tube closest to the latch post is always constructed of 2.5" square x 16-gauge stainless steel tube. All welds are ground smooth. The top of the gate arm is 36.75" from the floor. The bottom of the gate arm is 1.50" from the floor. In a fully open (90 degree) position, the gate provides a clear floor opening of 35" (latch post base flange to hinge post tabs).
- The **Latch Post** is constructed from a 2.5" square x 16-gauge stainless steel tube with a welded steel cap. All welds are ground smooth. The post is 39.75" high and is secured to the floor using four anchors and bolts. A split base flange cover is provided.
- The **Hinge Post** is constructed from a 2.5" square x 16-gauge cold rolled carbon steel (or #304 SS) tube with a welded steel cap. All welds are ground smooth. The post is 39.75" high and is secured to the floor using four anchors and bolts. A split base flange cover is provided.

Finishes: The VMGX-2 Gate is available in the following finishes:

- **Powder Coated** – Available in a wide variety of colors. Sub-assemblies are sand blasted to prepare for the powder coat finish. The powder is electrostatically applied, then baked to assure proper curing and adhesion.
- **Stainless Steel** – All external fabricated materials are composed of #304 stainless steel (noted in the descriptions above as #304 SS) and polished to a #4 satin finish.

Size: VMGX-2 units have an overall height of 39.75", an overall width of 47", and a depth of 5.5" when the gate arm is closed. The height of the gate arm is 36.75".

Electrical Components and Functionality: The following are the electrical requirements and standard functionality of the VMGX-2:

- **Power** – The VMGX-2 has a standard input power requirement of 120 VAC. Primary power is stepped down and rectified for low voltage 12 VDC operation. The actual current draw of the VMGX-2 will vary depending on the application, but the maximum draw under any circumstance is 1800 mA per gate. The 120 VAC power supply provided is capable of being plugged into a wall outlet or power strip. The provided power supply is designed to power only the supplied gate, and no other external devices.
- **Activation** – The VMGX-2 requires a sustained normally closed activation of at least 8 seconds to unlock the gate. The gate lock will not re-engage until the switch is released and the gate arm is closed.
- **Gate Status Relay** – The VMGX-2 gate utilizes three additional wires coming out of the bottom of the gate latch post to indicate the status (open or closed) of the gate arm as an isolated relay closure.

- **Time Delay** – The VMGX-2 gate will automatically relock two to six seconds after the gate arm self closes and centers on the latch post. The duration of the time delay is adjustable. The minimum time delay setting is two seconds. The maximum setting is six seconds.

Shipping: VMGX-2 gates are shipped in two main sections: the Gate with Hinge Post, and the Latch Post with Shear Lock Mechanism. Each section is fully fabricated as a sub-assembly for easy installation. Each VMGX-2 gate includes mounting hardware (anchors, bolts, washers, etc.) to mount the unit to a standard, level concrete floor. Alvarado ships products throughout the world.

Installation: All VMGX-2 gates must be installed on a firm foundation in a manner that allows the required power and activation signal cabling to be pulled into the latch post. The gate must be installed on level concrete. No embedded fasteners are needed for installation. Installation should be performed by a skilled installer following the manufacturer's directions and instructions (supplied with the gate).

Options:

The following is a list of options that are available for the VMGX-2 gates:

- **Crash Plates** – Crash plates are 8" high and run the entire length of the gate arm. Crash plates are constructed from 1/8" thick stainless steel and are welded to the upper portion of the gate arm assembly.
- **Push Bar** – A push bar can be added to provide the ability to unlock the gate arm in the event of an emergency. When this option is ordered, two additional wires are provided coming out of the bottom of the gate hinge post. Alvarado Part #10-3160.
- **Push Button Assembly for Unlocking Gate Remotely** – Red activation button installed in a black plastic box. Alvarado Part #PB-2.
- **Small "Press to Exit" Button Assembly** – Alvarado Part #10-1422.
- **Large "Press to Exit" Button Assembly** – Alvarado Part #10-1423.
- **Push Button Interface Board** – This adjustable timer board will convert a momentary activation signal to a sustained activation signal to properly activate the gate. An activation signal of at least eight seconds is required from the gate activation device to operate properly with the shear lock. Alvarado Part #10-3145.

Warranty: Alvarado Manufacturing Co., Inc. warrants the VMGX-2 gate from defects in material or workmanship, for the period of ONE YEAR from date of shipment. Complete details of the warranty are available from Alvarado by request.

Technical Services: Technical information is available from Alvarado Mfg. Co., Inc., and its representatives, distributors and dealers.