

# 4-12 in. VentSafe® Security Cage

## Operation, Maintenance and Installation Manual

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VAL-MATIC® VALVE AND MANUFACTURING CORP.

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# 4-12 in. VentSafe® Security Cage

## OPERATION, MAINTENANCE AND INSTALLATION

### INTRODUCTION

This manual will provide you with the information to properly install, maintain and ensure a long service life for the VentSafe®. The VentSafe® is to be installed in vent pipes used to vent vaults, reservoirs and air valves to prevent the entrance of foreign objects and to provide a barrier against the intentional introduction of liquids into the vent pipe (see figure 1).

### RECEIVING AND STORAGE

Inspect the VentSafe® upon receipt for damage in shipment. Unload all devices carefully to the ground without dropping.

The devices should remain boxed, clean and dry until installed to prevent weather related damage.

### DESCRIPTION OF OPERATION

The VentSafe® is a wafer-style, screened cage to deter unauthorized access and to prevent foreign objects from entering the valve, vault or reservoir vent, but still allow the vent to perform its function of admitting and expelling air under normal operating conditions.

### INSTALLATION

The installation of the VentSafe® is important for its proper operation. The VentSafe® can be installed in the vertical or horizontal position between typical ANSI Class 125 flanges using standard connection practices. The VentSafe® Security Cage can be located above ground as shown in Figure 2. The device can also be placed in series at both locations for added protection. When installed at the end of the vent pipe a ring-type flange is needed on the end of the pipe to secure the device in place,

Flanged connections should only be mated with flat-faced pipe flanges. The bolts should be tightened in gradual steps using the crossover method. Recommended torque values are given in Table 1. The VentSafe® can be used with or without flange gaskets since the vent piping is not pressurized.

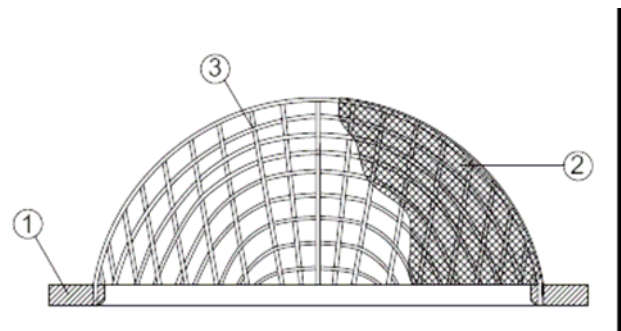
**CAUTION:** The use of excessive bolt torque may damage the device.

Mounting Flange Bolts			
Device Size	Bolt Size	Recommended Torque (ft-lbs)	Maximum Torque (ft-lbs)
4	5/8"	20	30
8	3/4"	30	40
12	7/8"	60	70

**TABLE 1. FLANGE BOLT TORQUES**

### VENTSAFE® CONSTRUCTION

The standard VentSafe® is constructed of quality corrosion resistant materials including polyvinyl chloride (PVC) and stainless steel type 304. The general details of construction are illustrated in Figure 1 and identified in Table 2.



**Figure 1: VentSafe® Cross Section of Components**

ITEM	DESCRIPTION	MATERIAL
1	Body	PVC
2	Screen, 20 Mesh	304 Stainless Steel
3	Cage, 2 Mesh	304 Stainless Steel

**Table 2: VentSafe® Parts List**

## MAINTENANCE

The VentSafe® requires no scheduled lubrication or maintenance.

**INSPECTION:** The VentSafe® may be checked for debris by following the disassembly and reassembly instructions. The body may be checked for cracks and gouges and the screen for tears. The neoprene gasket may be inspected for aging, tears or deep scratches.

## PARTS AND SERVICE

Parts and service are available from your local representative or the factory. Make note of the Valve Size and Model Number located on the valve nameplate and contact:

Val-Matic Valve and Manufacturing Corp.  
905 Riverside Drive  
Elmhurst, IL 60126  
Phone: (630) 941-7600  
Fax: (630) 941-8042  
[www.valmatic.com](http://www.valmatic.com)

A sales representative will quote prices for parts or arrange for service as needed.

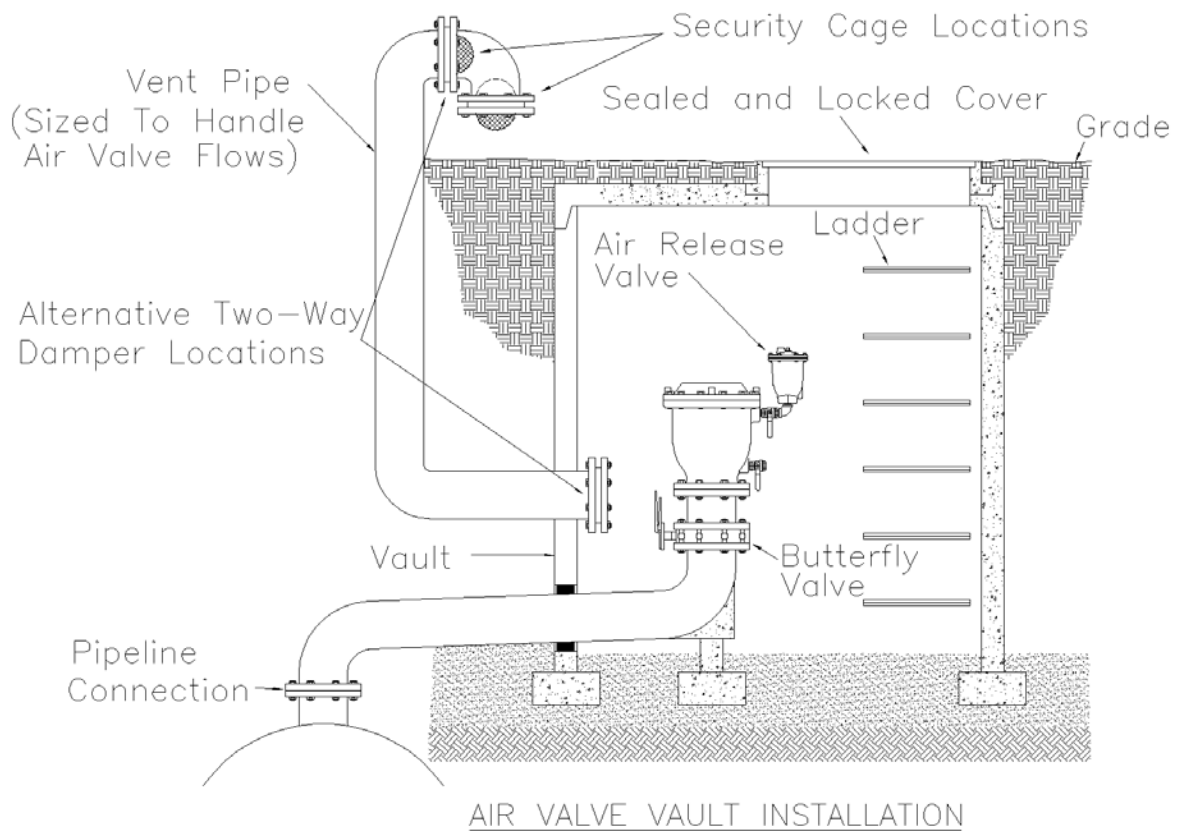


FIGURE 2. VENTSAFE® INSTALLATION

**LIMITED WARRANTY**

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitations below.

If the purchaser believes a product is defective, the purchaser shall: (a) Notify the manufacturer, state the alleged defect and request permission to return the product; (b) if permission is given, return the product with transportation prepaid. If the product is accepted for return and found to be defective, the manufacturer will, at his discretion, either repair or replace the product, f.o.b. factory, within 60 days of receipt, or refund the purchase price. Other than to repair, replace or refund as described above, purchaser agrees that manufacturer shall not be liable for any loss, costs, expenses or damages of any kind arising out of the product, its use, installation or replacement, labeling, instructions, information or technical data of any kind, description of product use, sample or model, warnings or lack of any of the foregoing. NO OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE MADE OR AUTHORIZED. NO AFFIRMATION OF FACT, PROMISE, DESCRIPTION OF PRODUCT OF USE OR SAMPLE OR MODEL SHALL CREATE ANY WARRANTY FROM MANUFACTURER, UNLESS SIGNED BY THE PRESIDENT OF THE MANUFACTURER. These products are not manufactured, sold or intended for personal, family or household purposes.



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