



Vestil Manufacturing Company

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BOL-Series Bollards



Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE: The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The department can also be contacted online at <https://www.vestil.com/page-parts-request.php>.

Electronic copies of Instruction Manuals

Additional copies of this instruction manual may be downloaded from <https://www.vestil.com/page-manuals.php>.

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SIGNAL WORDS

SIGNAL WORDS appear in this manual to draw the reader's attention to important safety-related messages. The following are signal words used in this manual and their definitions.

▲ DANGER

Identifies a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**. Use of this signal word is limited to the most extreme situations.

▲ WARNING

Identifies a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.

▲ CAUTION

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE** injury.

NOTICE

Identifies practices likely to result in product/property damage, such as operation that might damage the product.

SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products, but no manual can address every conceivable risk. Minimize the likelihood of injury by observing the hazards identified below and by inspecting and maintaining the product as instructed in [INSPECTIONS & MAINTENANCE](#) on p. 6.

▲ WARNING

Risks of serious personal injuries or death.

- **Read and understand the entire manual before assembling, using, inspecting, or servicing the baler.**
- Read and understand the entire manual before installing, using, or servicing the product.
- Read the manual whenever necessary to refresh your understanding of proper use and maintenance procedures.
- DO NOT attempt to resolve any problem(s) with the product unless you are both authorized to do so and certain that it will be safe to use afterwards.
- DO NOT modify the product in any way UNLESS you first obtain written approval from Vestil. Unauthorized modifications automatically void the [LIMITED WARRANTY](#) and might make the product unsafe to use.
- Inspect the product at least once per month. DO NOT use this product if the inspection reveals structural damage. Examples of structural damage include, but are not limited to, the following: 1) Cracked, broken, or otherwise damaged welds; 2) Missing or obscured reflective tape (see item no. 3 on p. 3) or weak reflectivity of reflective tape (on p. 3); 4) Corrosion, severe wear, or other condition that affect the integrity of the bollard. Replace each part that fails to pass an inspection. DO NOT use the product until it is fully restored to satisfactory condition. See [RECORD OF SATISFACTORY CONDITION](#) on p. 4.
- DO NOT use the product if it is not securely anchored to the ground/surface. The bollard should not wobble. Relocate the bollard if it cannot be securely anchored to the ground/surface.
- Replace the bollard immediately after it sustains damage. NOTE: Damaged sustained as a result of the bollard's intended/designed use is not covered by the warranty.
- DO NOT use this device UNLESS all labels (see [LABELING DIAGRAM](#)) are clearly visible and undamaged. Replace damaged labels as soon as damage occurs.

NOTICE

- Proper use, maintenance, and storage are essential for this product to function properly.
- Always use this product in accordance with the instructions in this manual and consistent with any training relevant to machines, devices, etc. used in conjunction with this product.
 - Keep the product clean & dry. Lubricate moving parts.

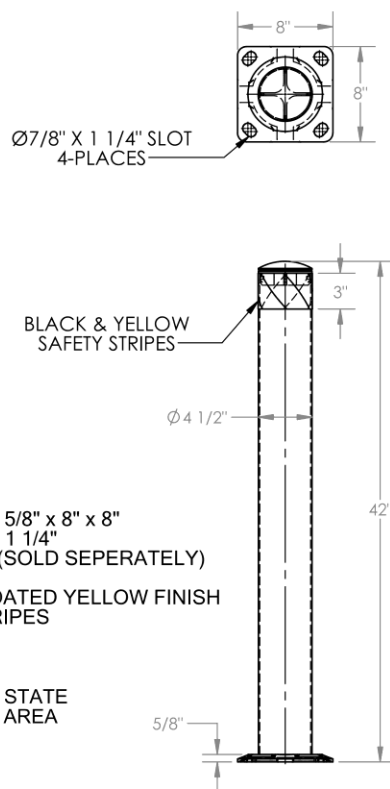
SPECIFICATIONS

Specifications documents for BOL series bollards are available online to anyone who visits Vestil's website. Specifications include attributes such as dimensions and net weight information. To access the applicable specifications document, navigate to this webpage: <https://www.vestil.com/product.php?FID=658>. Scroll the page to the "Product Specifications Table". Click the button in the "PDFs" column that looks like a pencil inside a box. A PDF file will open. This file is the specifications document. Print a copy of the document and keep it with your copy of this manual. The following is an exemplar specifications document for model BOL-42-4.5.

STEEL PIPE SAFETY BOLLARD - BOL - 42-4.5

APPROX WEIGHT: 24.39 lbs.
DOES NOT INCLUDE WEIGHT OF POWER OR PACKAGING!!!

*** ANY ADDITIONS, DELETIONS, OR OMISSIONS MUST BE CORRECTED ON THIS DRAWING AS THIS DRAWING WILL BE CONSIDERED ALL INCLUSIVE ***
ALL GRAPHICS PROVIDED ARE FOR REFERENCE ONLY. IF CERTAIN DIMENSIONS ARE CRITICAL PLEASE VERIFY THOSE DIMENSIONS WITH YOUR SALESPERSON

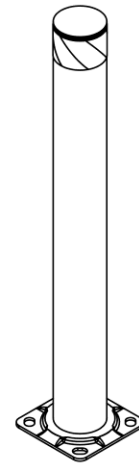


STANDARD FEATURES

- MODEL NUMBER: BOL - 42-4.5
- OVERALL WIDTH: 8"
- OVERALL LENGTH: 8"
- OVERALL HEIGHT: 42"
- PIPE DIA: 4 1/2"
- LAG DOWN MOUNTING PLATE: 5/8" x 8" x 8"
- WITH MOUNTING SLOTS: 7/8" x 1 1/4"
- FOR 3/4" DIA. ANCHOR BOLTS (SOLD SEPERATELY)
- BLACK REMOVABLE TOP CAP
- TOUGH BAKED IN POWDER COATED YELLOW FINISH
- BLACK & YELLOW SAFETY STRIPES
- ALL STEEL CONSTRUCTION (ASTM A-36 MIN.) WITH WELDING TO MEET AWS
- WARNING: CHECK APPLICABLE STATE & LOCAL LAWS FOR YOUR AREA

SPECIAL FEATURES

NONE



FOR INTERNAL USE ONLY PROJECT SIGN OFF	
SALES	
ENG.	
FAB.	
POWER	

DIMENSION TOLERANCE ± 1/4"

APPROVAL

I, THE UNDERSIGNED, AGREE THAT THE PRODUCT AS REPRESENTED SATISFIES DESIGN AND DIMENSION REQUIREMENTS. I ALSO ACKNOWLEDGE MY DUTY TO CONFIRM PRODUCT AND INSTALLATION COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND STANDARDS.

ANY MODIFIED UNITS ARE NON-RETURNABLE
 As drawn As marked

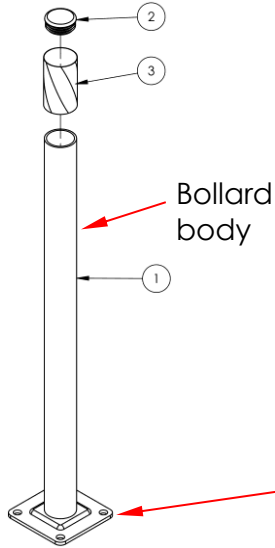
Signed: _____ Date: _____
 Printed Name: _____

LEAD TIME WILL START UPON RECEIPT OF SIGNED APPROVAL DRAWING

DISTRIBUTOR'S NAME:		P.O.#
VESTIL MANUFACTURING		W.O.#
DRAWN BY: QW	DATE: 05/05/12	SALES: X
REFERENCE: X	SCALE: 1:10	FILE NAME:
QUOTED LEAD TIME: X	QUOTE # X	23-007-009

NOTE: If your model is not included on the webpage, or if you cannot access and/or print the document, contact the [TECHNICAL SERVICE DEPT.](#) Contact information is provided on the front page of this manual.

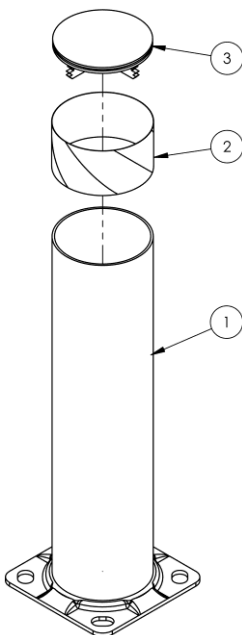
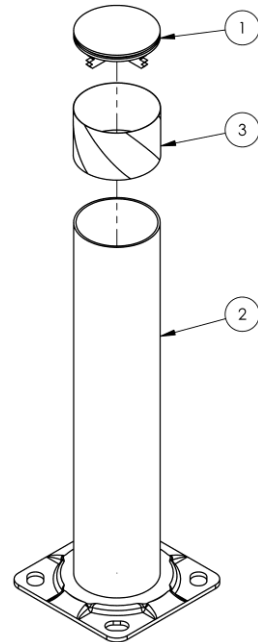
BOL-##-2 EXPLODED VIEW AND BILL OF MATERIALS (23-006-112)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	23-514-045	GUARD WELDMENT (CONSISTS OF BOLLARD BODY AND MOUNTING PLATE)	1
	23-514-046	BOL-24-2	1
	23-514-047	BOL-36-2	1
	23-524-131	BOL-42-2	1
		BOL-48-2	1
2	23-024-100	CAP, BOLLARDS	1
3	99-134-551	LABEL, CAUTION 6"L x 2"H BLACK & CLEAR STRIP	1

BOL-##-4.5 EXPLODED VIEW AND BILL OF MATERIALS (23-006-007)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	23-024-327	GUARD, REMOVABLE BOLLARD CAP	1
2	23-524-001	GUARD WELDMENT (CONSISTS OF BOLLARD BODY AND MOUNTING PLATE)	1
	23-524-002	BOL-24-4.5	1
	23-524-003	BOL-36-4.5	1
	23-524-129	BOL-42-4.5	1
	23-524-298	BOL-48-4.5	1
	23-524-301	BOL-62-4.5	1
	23-524-301	BOL-72-4.5	1
3	99-134-366	LABEL, CAUTION 19"L x 3"H BLACK & CLEAR STRIP	1

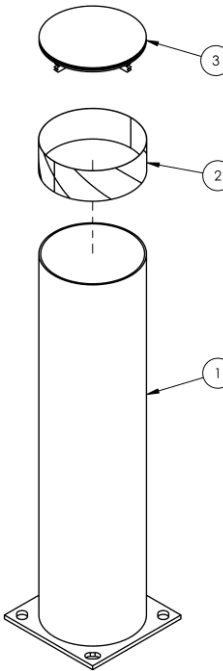
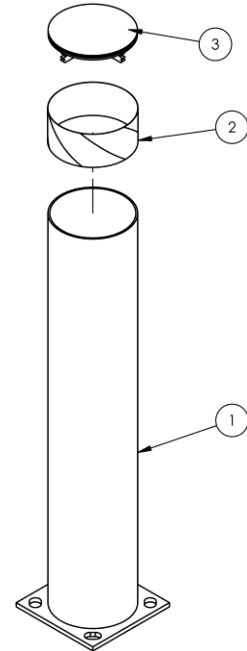


BOL-##-5.5 EXPLODED VIEW AND BILL OF MATERIALS (23-006-010)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	23-524-005	GUARD WELDMENT (CONSISTS OF BOLLARD BODY AND MOUNTING PLATE)	1
	23-524-006	BOL-36-5.5	1
	23-524-130	BOL-42-5.5	1
	23-524-299	BOL-48-5.5	1
	23-524-302	BOL-62-5.5	1
	23-524-302	BOL-72-5.5	1
2	99-134-366	LABEL, CAUTION 19"L x 3"H BLACK & CLEAR STRIP	1
3	23-024-328	GUARD, REMOVABLE BOLLARD CAP	1

BOL-##-6.5 EXPLODED VIEW AND BILL OF MATERIALS (23-006-417)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	23-524-205	GUARD WELDMENT (CONSISTS OF BOLLARD BODY AND MOUNTING PLATE)	1
	23-524-206	BOL-36-6.5	
	23-524-207	BOL-42-6.5	
	23-524-300	BOL-48-6.5	
	23-524-303	BOL-62-6.5	
2	99-134-366	LABEL, CAUTION 19"L x 3"H BLACK & CLEAR STRIP	1
3	23-024-329	GUARD, REMOVABLE BOLLARD CAP	1

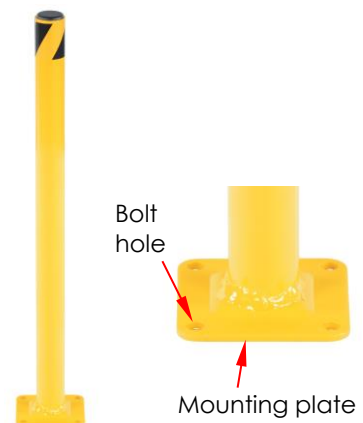


BOL-##-8.5 EXPLODED VIEW AND BILL OF MATERIALS (23-006-265)

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	23-524-148	GUARD WELDMENT (CONSISTS OF BOLLARD BODY AND MOUNTING PLATE)	1
	23-524-006	BOL-36-8.5	
	23-524-130	BOL-42-8.5	
2	99-134-366	LABEL, CAUTION 19"L x 3"H BLACK & CLEAR STRIP	2
3	23-024-518	GUARD, REMOVABLE BOLLARD CAP	1

INSTALLING THE BOLLARD

There are 4 elongated bolt holes (see arrow in diagram at right) in the mounting plate of your bollard for anchoring hardware. Your building engineer should determine the necessary length and diameter of the anchor bolts used to attach the bollard to the selected concrete surface. Set the bollard in position at the installation site. Then, mark the concrete to show the locations of all 4 bolts holes. Drill holes where the surface is marked using a properly sized masonry drill bit. Drill to the depth specified in the installation instructions for your anchoring hardware. Set the bollard in place, i.e. align bolt slots in the mounting plate with holes drilled into the concrete, and install anchor bolts.



RECORD OF SATISFACTORY CONDITION (the “RECORD)

After installing the bollard, make a record of its appearance. Describe in writing the condition of the bollard, anchoring hardware and the anchoring surface around the bollard, operating mechanisms (if applicable), as well as the location of each label, tag, decal, etc. Take photographs of all frame elements: mounting plate, bollard body, cap, and label(s). Add the photos to the record. **These documents and photos are a record of the unit in satisfactory condition.**

INSPECTIONS AND MAINTENANCE

Compare your observations to the [RECORD](#) to determine whether the inspected item is in satisfactory condition. Remove the bollard from service unless every component is in satisfactory condition. Cosmetic changes, like recently damaged paint/powder coat, are not changes from satisfactory condition. However, touchup paint must be applied to all affected areas as soon as damage occurs. Exposed metal rusts and rust could compromise the integrity of the metal. Contact [TECHNICAL SERVICE](#) to order replacement parts. Contact information appears on the cover page of this instruction manual.

At least once per month:

1. Check the surface of the product for dirt or other matter. Clean the bollard.
2. Examine anchoring hardware. Replace damaged, worn, or corroded hardware. Confirm that the bollard is solidly anchored to the (concrete) ground surface. Replace all anchoring hardware that is not solidly attached to the ground. If the bollard wobbles, tighten loose anchor bolts. Install the bollard in another location if wobble cannot be eliminated in the present location.
3. Examine all parts of the bollard for cracks, corrosion/rusting, impact damage, metal fatigue, and other forms of damage. Apply touchup paint to all exposed metal.
4. Check all labeling. Replace labels that are damaged or not easily readable. See [LABELING DIAGRAM](#) (below).
5. Examine the whole structure for severe rusting/metal erosion, rot, thinned regions. If rusting is purely superficial, remove the rust/corrosion with a steel bristle brush or steel wool. Clean the affected area and apply touchup paint. If rusting, rot, or thinning has weakened the material, contact [TECHNICAL SERVICE](#) for advice.

LABELING DIAGRAM

Label content and location are subject to change so your product might not be labeled exactly as shown. Compare the diagram below with the [RECORD](#). If you have any questions about labeling, contact [TECHNICAL SERVICE](#). Replace all labels that are damaged, missing, or not easily readable (e.g. faded). To order replacement labels, contact the technical service and parts department online at <https://www.vestil.com/page-parts-request.php>. Alternatively, request replacement parts and/or service by calling (260) 665-7586 and asking the operator to connect you to [TECHNICAL SERVICE](#).



Model	Label	Quantity
BOL-2-###	551	2
BOL-4.5-###	366	1
BOL-5.5-###	366	1
BOL-6.5-###	366	1
BOL-8.5-###	366	2



LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the [Customer Invoice](#) that displays the shipping date; AND 2) a [written request](#) for warranty service including your name and phone number. Send requests by one of the following methods:

<p><u>US Mail</u> Vestil Manufacturing Company 2999 North Wayne Street, PO Box 507 Angola, IN 46703</p>	<p><u>Fax</u> (260) 665-1339 <u>Phone</u> (260) 665-7586</p>	<p><u>Email</u> info@vestil.com Enter "Warranty service request" in subject field.</p>
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In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is 90 days. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any covered part. An authorized representative of Vestil will contact you to discuss your claim.

What is not covered by the warranty?

The Warrantee (you) are responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

Do any other warranties apply to the product?

Vestil Manufacturing Co. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.