



## **Vacuum Kit for Accessory Port 1/2" Holes**

Product number 47012

## **Vacuum Valve for Accessory Port 1/2" Holes**

Product number 47001

### **Product Registration**

Please register your product at [ikelite.com](http://ikelite.com) within 15 days of purchase. Our product registration database is the best way for us to get a hold of you in the event of a product update or notice.

## **About this Product**

Thank you for your purchase of Ikelite equipment. Please read this instruction manual completely before attempting to operate or dive with this product. Please visit [ikelite.com](http://ikelite.com) to register your product to receive information on any updates, notices, or recalls pertaining to your equipment.

## **Included in the Box**

- Vacuum valve for 1/2" holes
- Vacuum valve plug with retainer
- Seal ring # 0139.02
- NPT nut # 0210.03
- Vacuum pump with gauge # 47011 (included in 47012 only)

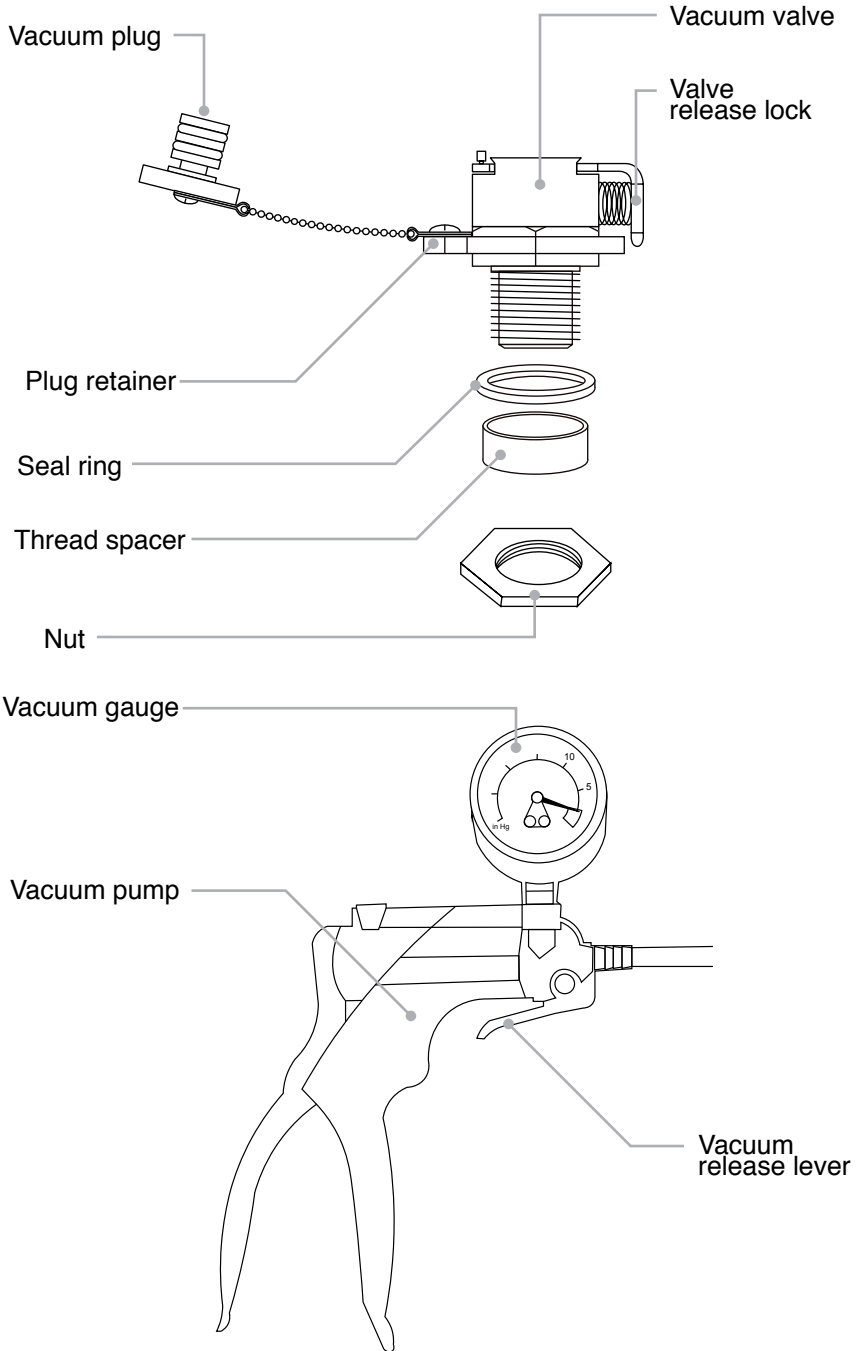
## **Important Notices**

- » **The vacuum valve is only waterproof with the plug in place. Never submerge the housing in water without the plug properly installed in the valve.**
- » **Vacuum systems are only capable of simulating depths up to 33 feet (10 meters). Some very small leaks, like those caused by a fine hair across the o-ring, may only occur at deeper depths. In most cases, these leaks are not significant enough to cause damage to a camera.**
- » **A vacuum system cannot correct for improper assembly.**

# Contents

<b>Product Registration</b> .....	<b>1</b>
<b>About this Product</b> .....	<b>2</b>
<b>Included in the Box</b> .....	<b>2</b>
<b>Replacement Parts</b> .....	<b>2</b>
<b>Important Notices</b> .....	<b>3</b>
<b>Getting to Know Your System</b> .....	<b>5</b>
<b>Installing the Vacuum Valve</b> .....	<b>6</b>
Installing the 1/2" Valve in an Accessory Port .....	6
Installing the 1/2" Valve in a DSLR Top Mount .....	7
<b>Using the Vacuum System</b> .....	<b>8</b>
Getting Ready for a Dive.....	8
Final Check.....	10
Opening the Housing.....	10
<b>Limited Warranty</b> .....	<b>11</b>
<b>Service and Repairs</b> .....	<b>11</b>
<b>Contact Us</b> .....	<b>12</b>

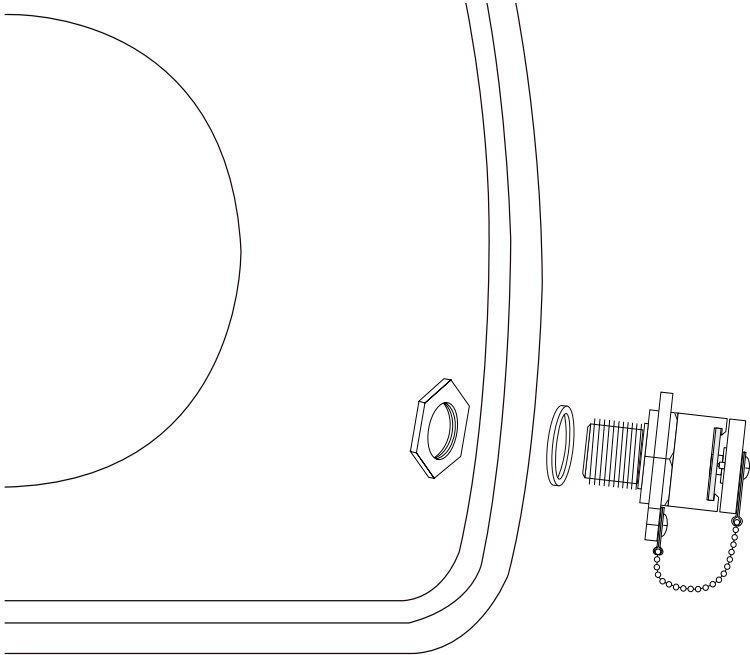
# Getting to Know Your System



# Installing the Vacuum Valve

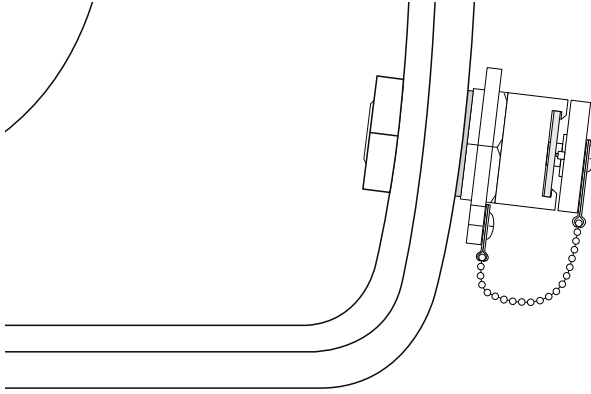
## Installing the 1/2" Valve in an Accessory Port

1. If more than one accessory port is provided, any spare port can be used. Choose the port that provides the most control clearance. Remove the accessory port plug using a 11/16" wrench.
2. Make sure that the seal ring and valve plug retainer are in place on the valve body. Do not lubricate the seal ring prior to installation.
3. Insert the valve into the threaded hole. The valve does not thread directly into the housing.
4. Rotate the valve so that the lock release is easily accessible.



5. Hold the valve in the desired orientation while attaching the nut on the inside of the housing.

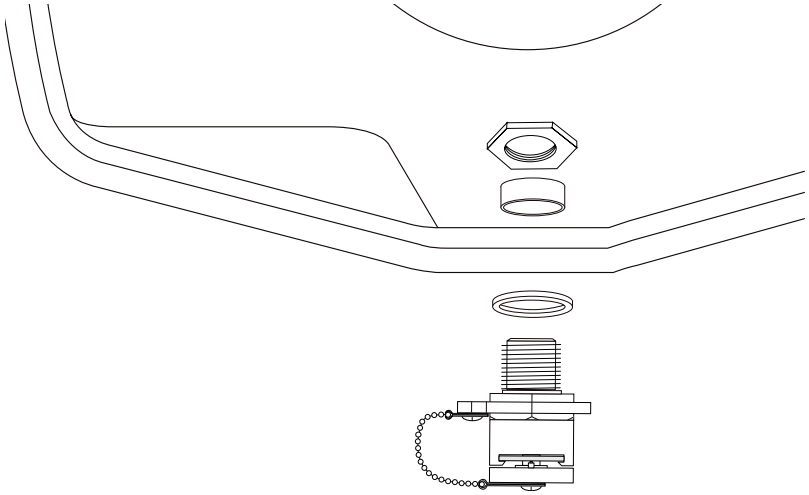
6. While holding the valve, tighten the nut with a wrench until snug. Do not over-tighten.



### Installing the 1/2" Valve in a DSLR Top Mount

1. Remove the plastic nut retainer using a thin flat head screwdriver.
2. Remove the nut from the top mount a 5/8" wrench.
3. Remove the top mount from the housing by pushing it upwards from the inside of the housing.
4. Check that the top mount location is clean a free of debris.
5. Make sure that the seal ring and valve plug retainer are in place on the valve body. Do not lubricate the seal ring prior to installation.
6. Insert the valve into the threaded hole. The valve does not thread directly into the housing.
7. Rotate the valve so that the lock release is easily accessible.

8. While holding the valve in place, turn the housing upside down and insert the thread spacer into the hole.



9. Attach the included nut on the inside of the housing and tighten with a wrench until snug. Do not over-tighten.

## Using the Vacuum System

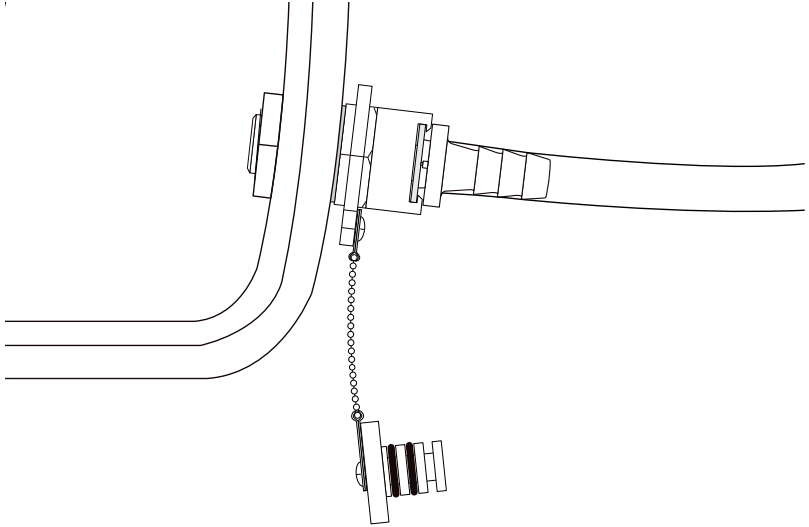
### Getting Ready for a Dive

» **The housing is only waterproof with the vacuum valve plug in place. Always replace the valve plug before putting the housing in water.**

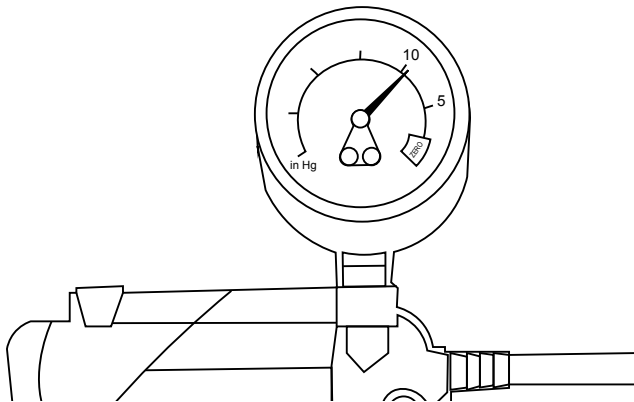
1. Install your camera in the housing according to the housing's instructions.
2. Press the vacuum valve lock release and remove the plug from the valve.



3. Attach the vacuum pump tubing insert into the valve and push until it clicks and locks in place.



4. Rotate the vacuum gauge so that it can be easily read while pumping. Pump the hand pump until the vacuum gauge reaches 5-10 inches Hg.



5. Watch and listen for leaks. A leak is indicated by movement of the gauge towards zero after you finish pumping. Significant leaks can generally be found within a few minutes.

6. If desired, leave the pump attached for several hours or overnight and then check that the gauge has not moved. Very small leaks will become more evident on the gauge as more time passes.
7. When you're ready to go in the water, press the lock release and remove the vacuum pump from the valve.
8. Install the valve plug into the valve and push until it clicks and locks in place.

## Final Check

1. Turn on the camera and check all control functions.
2. Make sure the camera can take and record a photo.
3. Check battery life and open storage space on your memory card.
4. Check your external flash or lighting, if using.
5. Submerge the housing in a fresh water tank dedicated to underwater photography equipment. Visually confirm that there are no signs of water intrusion. One sign of a leak is a steady stream of bubbles coming from one of the housing's seals.

## Opening the Housing

» **It is not possible to open the housing normally when a vacuum is pulled on the housing. The vacuum must be released prior to opening the housing.**

1. Rinse the housing with fresh water prior to opening.
2. Press the vacuum valve lock release and remove the plug from the valve.
3. Attach the pump to the valve and press the release lever on the pump.
4. If the pump is not available, insert a small blunt object into the center of the valve and gently press to allow air to enter the housing.

## **Limited Warranty**

This Ikelite product is warranted against any manufacturing defects for a period of one (1) year from the original date of purchase. Defective products should be returned to Ikelite postage paid. Ikelite will, at its sole discretion, repair or replace such products, and will return to customer postage paid. All other claims of any nature are not covered. Except as mentioned above, no other warranty expressed or implied applies to this Ikelite product.

## **Service and Repairs**

Ikelite is most interested in performing any service to ensure that all products perform as intended. Evidence of purchase date must be provided to obtain warranty service.

No prior authorization is required. You may return directly to us or through your dealer. Please include a brief description of the problem, any relevant email correspondence, and/or description of the service request. Always include name, shipping address, email address, and phone number inside of the package. Send postage paid to:

Ikelite Underwater Systems  
Attention: Service Department  
50 West 33rd Street  
Indianapolis, IN 46208 USA

For the separate international customs documentation form that you complete to accompany the shipment, please state or designate that the enclosed products were originally manufactured in the USA and are being returned to the manufacturer for repair service. Value of the equipment listed for customs purposes should be zero.

# Contact Us

If you have any questions about your product or need advice on getting the images you want, please get in touch with us and we'll do everything we can to help you capture your unique perspective.

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