biopsy valves &
irrigation accessories
**BioShield® biopsy valves** and irrigation accessories are single-use, offering unsurpassed protection for patients and staff.

**Why single-use valves?**

It is nearly impossible to manually clean, disinfect, flush and dry biopsy valves. Reused biopsy valves can become leaky and potentially harbor dangerous pathogens - putting both patients and healthcare workers at risk. Fortunately, BioShield® biopsy valves are single-use, leaving you one less thing to worry about.

**Why take the risk?**

*Trust BioShield® biopsy valves.*
BioShield® biopsy valve

It just makes sense

Single-use valves reduce the possibility of cross-contamination between patients. Small valve size and easy device passage offer exceptional functionality during usage.

convenience and peace of mind

www.usendoscopy.com
Did you know?
Findings suggest biopsy valves aren’t designed to be cleaned and reprocessed...

**FACT:** The design of a biopsy valve inhibits the reach and effectiveness of cleaning brush bristles, making it nearly impossible to remove debris from inner crevices.

**FACT:** Biopsy valves have internal flaps that squeegee biomaterial off devices as they are extracted, allowing it to collect deep within the valve’s inner crevices.

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**Play it safe**... US Endoscopy’s line of BioShield® biopsy valves are single-use so you no longer have to worry about what lingers in those hidden crevices.

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**what the experts are saying**

“...**cleaning brush bristles must come in contact with all surfaces of the endoscope channel, parts, connectors and orifices before reuse is safe.**”  

“Air pockets in the biopsy-port caps that prevented effective contact between disinfectants and the microorganisms when submerged during cleaning were pinpointed as the culprits of the spreading bacteria. Also, the design of the caps prevented thorough cleaning and drying of surfaces inside the caps, thus providing an environment where the bacteria could survive the usual disinfection procedures, according to doctors.”  

“**Rubber biopsy port caps must be discarded after all procedures involving the passage of biopsy forceps, guidewires and/or other accessories through the endoscope.**”  

“...**healthcare-related infections from endoscopy continue to occur, in part, because endoscopes are difficult to clean due to their complex nature, which includes “springs and valves” as parts of the endoscope that complicate adequate disinfection.**”
In a documented study,* published in *EndoNurse* and *Infection Control Today*, researchers found visible debris/proteinaceous material in over 50% of the test valves. The reprocessed valves used in the study, supplied from three major U.S. institutions, were deemed “clean and ready to use” prior to microscopic evaluation.

The results showed wear and damage to valve structure, gross contamination on the outer edges, and contamination within the nooks and crannies of the valves - where cleaning brushes can’t always reach.

(Figure 1.2-1.4 taken from David M. Parente, BS, BA, MBA, “Could Biopsy Port Valves be a Source for Potential Flexible Endoscope Contamination,” *Infection Control Today*, Volume 11, No. 6, (June 2007).

Fig 1.2 - Valve observed during microscopy demonstrates wear and damage after use, manual cleaning and high-level disinfecting. Note the presence of contamination along edge of the opening.

Fig 1.3 - Internal cross section of valve observed at magnification of approximately 10x demonstrates presence of contamination in nooks and crannies of valve.

Fig 1.4 - Valve observed during microscopy at 10x magnification. Note the presence of pinkish droplets on the edge of the valve opening, representing gross contamination.

**related articles**


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Flush blood, exudate and other debris out of your way at anytime throughout a procedure*- even with a device in place.

How important is a clear view?
The BioShield® irrigator affords immediate, direct, intraprocedural irrigation. Simply attach a 60cc syringe to the irrigation line, or use extension tubing to connect with your water pump for hands-free, foot pedal control.

Add a whole new level of efficiency to your endoscopy procedures with the BioShield® irrigator

*In order to achieve moderate irrigation pressure and minimize leakage, there must be sufficient room within the biopsy channel for fluid to pass when there is a device in place.
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*Not currently for sale in the United States