

# DEFENDO™

Sterile Single-use Valves



# A HISTORY OF INNOVATION

In 2010, Cantel became the first company to offer single-use endoscope valves and we now manufacture over 9 million DEFENDO™ Valves every year.

We continue to innovate to bring our customers the infection prevention resources needed to protect their patients and staff.

- Our research and development team is constantly working to better understand all the available valve options on the market and to create valves that offer solutions to unmet clinical needs.
- Our verification testing includes multiple tests for force and suction to help create valves that don't exhibit some of the common issues with reusable and other single-use valves: clogging, sticking and loss of insufflation.
- The consistency and accuracy we achieve in our manufacturing processes means that less than one tenth of one percent of our valves exhibit a reportable issue.<sup>1</sup>

## SOCIETY GUIDELINES SUPPORT THE USE OF SINGLE-USE ENDOSCOPE VALVES

### AORN

"In a non-experimental study to evaluate the difficulty with manual cleaning and disinfection of endoscopic biopsy port valves ... The researchers found eight of the 15 valves (53.3%) exhibited some form of debris or potential contamination ... The researchers concluded that single-use biopsy port valves provided a higher degree of patient safety."<sup>2</sup>

### AAMI

"Processing of certain reusable endoscope components such as air/water and suction valves ... require the same level of inspection, cleaning and high-level disinfection or sterilization as the endoscopes themselves." Providers should therefore "... consider the use of single-use, disposable valves."<sup>3</sup>

### SGNA

"... literature suggests that reusable buttons & valves be reprocessed and stored together with the endoscope as a unique set for tracking purposes."<sup>4</sup>

# YOUR PARTNER **IN THE** **FIGHT AGAINST HEALTHCARE- ASSOCIATED INFECTIONS (HAIs)**

**Reducing the risk of infections for endoscopy patients is critically important. More HAIs and outbreaks have been linked to contaminated endoscopes than to any other medical device.<sup>5</sup>**

For patients who contract an HAI the consequences can be significant. In the U.S. over 1.7 million people contract an HAI each year and more than 99,000 people die.<sup>6</sup>

For more than 40 years Cantel has been delivering innovation and excellence in endoscope reprocessing. We offer a comprehensive line of endoscope reprocessing products including market-leading detergents and disinfectants, technologically advanced automated reprocessors, transportation systems, drying and storage cabinets, and equipment tracking systems.

**Our ecosystem of product and service offerings comes together in our Complete Circle of Protection,** an infection prevention program designed to help you streamline reprocessing workflow, improve department efficiency, and reduce the risk of infection.



## **THE COMPLETE CIRCLE OF PROTECTION**

As the global vanguard in infection prevention, **only Cantel Medical delivers the Complete Circle of Protection**, a full-value, proactive partnership dedicated to helping you remove risk, streamline operational efficiencies and optimize your success.

**PROCEDURE** Reducing the risk of patient cross-contamination is at the forefront of infection prevention. Cantel innovates infection control products designed to improve patient outcomes, while increasing procedural efficiency.

# THE BEST DEFENSE

## IS DEFENDO™ STERILE SINGLE-USE VALVES

### INFECTION PREVENTION

**The risk of infection from improperly cleaned and disinfected reusable endoscope valves is extremely high due to their complex design.** Meticulous brushing is required during reprocessing and that still may not be sufficient to ensure a safe, patient-ready endoscope. DEFENDO™ Sterile Single-use Valves solve the issue of reusable valve reprocessing by offering a single-use option that ensures sterile valves for every procedure and eliminates the need to track valves with endoscopes.

### PERFORMANCE

**DEFENDO™ Valves are high-performance, high-quality products that support procedural control and efficiency.** Our verification testing includes multiple tests for force and suction to help create valves that don't exhibit some of the common issues with reusable and other single-use valves: clogging, sticking and loss of insufflation. When you experience these issues during a procedure, the result can be a longer, more difficult procedure.

**DEFENDO™ SINGLE-USE VALVES ARE COMPATIBLE WITH LEADING GI ENDOSCOPES, INCLUDING OLYMPUS®, PENTAX® 90 AND i10 SERIES, AND FUJIFILM™ 500 AND 600 SERIES.**

DEFENDO™ Single-use Valves for  
Olympus® Endoscopes



DEFENDO™ Single-use Valves for  
Pentax® 90 and i10 series Endoscopes



DEFENDO™ Single-use Valves for  
FUJIFILM™ 500 and 600 series Endoscopes



## IMPROPER VALVE REPROCESSING

The complex design of reusable endoscope valves makes them exceptionally difficult to clean and disinfect. A laboratory study of "patient-ready" valves found widespread, inadequate reprocessing of air/water and suction valves.<sup>7</sup>



**Bacteria, yeast, molds and bacterial spores** were detected on 56% of the valves tested.

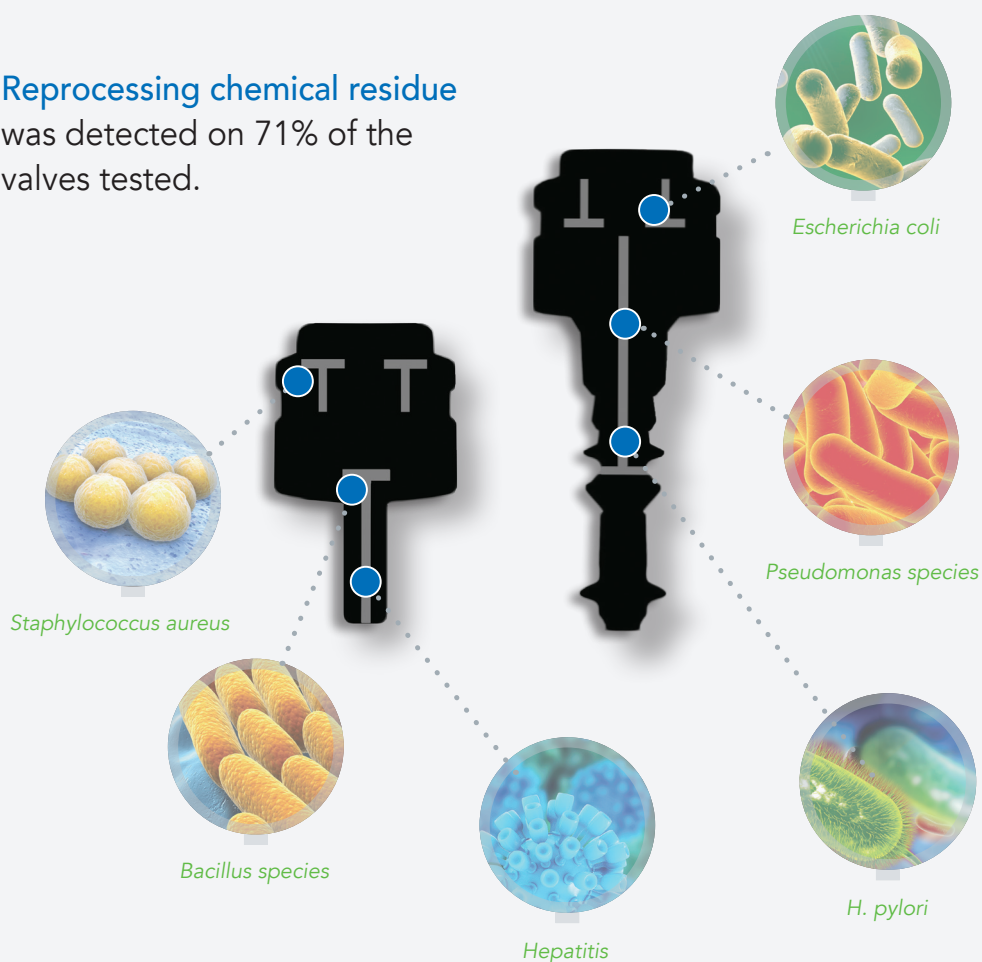


**Endotoxin/pyrogen** was detected on 20% of the valves tested.



**Reprocessing chemical residue** was detected on 71% of the valves tested.

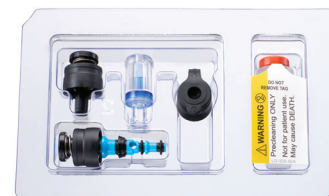
The pathogenic microorganisms detected on the reprocessed valves included *Staphylococcus aureus*, *Escherichia coli*, *Bacillus* species, *Pseudomonas* species, Hepatitis and *H-Pylori*.<sup>7,8</sup>



## DEFENDO™ Sterile Single-use Valves Ordering Information

### OLYMPUS® GI ENDOSCOPES

PART NUMBER	DESCRIPTION
100301	Single-Use Biopsy Valve
100303	Single-Use Y-OPSY™ Valve
100322	5-piece Kit (Single-Use Air/Water, Suction and Biopsy Valves, ENDOGATOR™ Connector and Cleaning Adapter)
100323	4-piece Kit (Single-Use Air/Water, Suction and Biopsy Valves and Cleaning Adapter)
100310	4-piece Kit (Single-Use Air/Water, Suction and Biopsy Valves and ENDOGATOR™ Connector)
100311	3-piece Kit (Single-Use Air/Water and Suction Valves and ENDOGATOR™ Connector)
100305	3-piece Kit (Single-Use Air/Water Suction and Biopsy Valves)
100306	2-piece Kit (Single-Use Air/Water and Suction Valves)



### PENTAX® GI ENDOSCOPES

100302 Single-Use Biopsy Valve

### PENTAX® 90 AND i10 SERIES GI ENDOSCOPES

100315 4-piece Kit (Single-Use Air/Water, Suction and Biopsy Valves and ENDOGATOR™ Connector)  
 100316 3-piece Kit (Single-Use Air/Water, Suction and Biopsy Valves)  
 100317 2-piece Kit (Single-Use Air/Water and Suction Valves)



### FUJIFILM™ GI ENDOSCOPES

100301 Single-Use Biopsy Valve  
 100303 Single-Use Y-OPSY™ Valve

### FUJIFILM™ 500 AND 600 SERIES GI ENDOSCOPES

100312 4-piece Kit (Single-Use Air/Water, Suction and Biopsy Valves and ENDOGATOR™ Connector)  
 100313 3-piece Kit (Single-Use Air/Water, Suction and Biopsy Valves)  
 100314 2-piece Kit (Single-Use Air/Water and Suction Valves)



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