

E Sterilization and High-Level Disinfection Recommendations

The recommendations indicated below are to be used as general guidelines. Follow the specific sterilization or disinfection procedures that have been validated by your institution.

Always carefully examine product after processing. Do not use if product shows signs of cracks, leaks, poor fit, severe discoloration, or fails to perform as indicated.

Pre-Washing:

A thorough pre-washing of components is necessary to remove foreign and/or organic contaminants. Use a low alkaline soap (pH 8.5 or less) to preserve maximum useful life.

Notes:

- Disassembly of valve is required if submersing in liquid.
- **DO NOT** disassemble diaphragm (BE 215-2A) or immerse in liquid. Valve performance can be affected by residual liquid inside of diaphragm.
- Replace diaphragm when necessary.

Sterilization:

Steam Autoclave:

Sterilize according to validated parameters. Do not exceed 135°C (275°F).

Gamma Radiation:

Irradiate according to validated parameters. Some discoloration may occur.

Ethylene Oxide:

Sterilize according to validated parameters. Do not exceed 55°C (131°F). Allow ample aeration time in a well-ventilated area to dissipate the absorbed gas.

Gas Plasma:

Sterilize according to validated parameters.

High Level Disinfection:

Pasteurization:

Pasteurize at 70°C +/- 3°C (153°F - 163°F) for a minimum of 30 minutes.

Chemical Disinfectants:

Recommended Chemical: 2-4% Activated Glutaraldehyde. Disinfect according to validated parameters. Follow the chemical manufacturer's recommendation for temperature and soak time. Chemical disinfection should be followed by sterile water rinse. Exposure time should be based on the manufacturer's indication for use as a high-level disinfectant or sterilant.

Do not use alcohol or chemicals containing dimethyl ammonium chloride.

Home Use

Wash valve components in a mild liquid dish detergent. Thoroughly scrub in order to remove all contaminants. Rinse well; ensure all remaining detergent is removed. Soak components for 20 minutes in a fresh vinegar solution that is 1 part vinegar and 3 parts water.

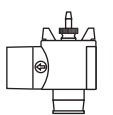
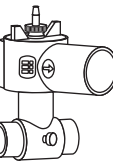
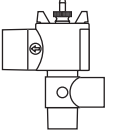
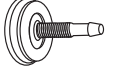

EXAMPLE: ½ cup vinegar and 1½ cups sterile water. *Thoroughly rinse parts with sterile water. Allow to air-dry on a clean towel. Do not wipe or dry with towel.*

BE 215-2A — Diaphragm Assembly

Gently scrub outside of stem with bottle brush in low alkaline soap; be sure to occlude open part of diaphragm stem so that cleaning solution does not enter the stem. Rinse thoroughly; air dry.

F Product Specifications

All Products are Reusable

	Model #	BE 30-115-B BE 30-115-BL (Low Resistance)
	Type:	Exhalation Valve
	Port Sizes:	Exhalation Port: 30mm O.D. Patient Port: fits 22mm I.D. Tubing
	Materials:	Valve Body: Polyetherimide Internal Parts: (See Replacement Parts)
	Model #	NS 30-115-5 NS 30-115-5L (Low Resistance)
	Type:	Exhalation Valve
	Port Sizes:	Exhalation Port: 30mm O.D. Tee Patient/Inlet Port: 22mm O.D. x 22mm O.D.
	Materials:	Valve Body: Polyetherimide Internal Parts: (See Replacement Parts)
	Model #	NS 30-115-U NS 30-115-UL (Low Resistance)
	Type:	Exhalation Valve
	Port Sizes:	Exhalation Port: 30mm O.D. Patient Port: 15mm I.D./22mm O.D. Inlet Port: 22mm O.D.
	Materials:	Valve Body: Polyetherimide Internal Parts: (See Replacement Parts)
Replacement Parts		
	Model #	BE 215-2A
	Type:	Diaphragm Assembly
	Model #	BE 115-2N
	Type:	Diaphragm Nut
	Material:	Nylon



Visit iiimedical.com/symbols.pdf for the Glossary of Symbols used in Instrumentation Industries, Inc. labeling.



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Instrumentation Industries, Inc.

Exhalation Valves

Installation & Usage Directions



BE 30-115-B/BL
NS 30-115-5/5L
NS 30-115-U/UL

Reusable



— Not made with Natural Rubber Latex

— Not made with Di(2-ethylhexyl) phthalate (DEHP)

A Indications for Use

These reusable exhalation valves are designed for use with ventilators. The exhalation valve prevents the inspired gases from escaping through the passage that will be made available to expired gases via an inflatable balloon. Re-breathing of the expired gases is prevented by the balloon action.

B Contraindications

None known

C Cautions & Notes

Caution: Always check valve for proper function prior to use. **DO NOT** over-tighten diaphragm holder cap.

Note: Direction of airflow is indicated by arrow.

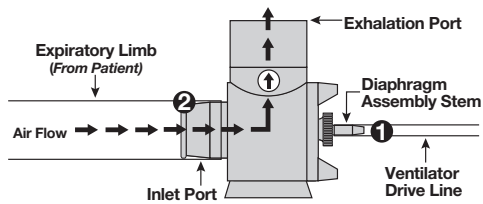
Note: If Diaphragm Assembly (BE 215-2A) becomes disassembled or damaged it must be replaced. **DO NOT** reassemble. Replace Diaphragm Assembly.

D Exhalation Valve — Installation Directions & Replacement Parts Diagram

BE 30-115-B BE 30-115-BL

Installation Directions

1. Connect Ventilator Drive Line to Diaphragm Assembly Stem. **①**
2. Connect Expiratory Limb of circuit to Inlet Port. **②**

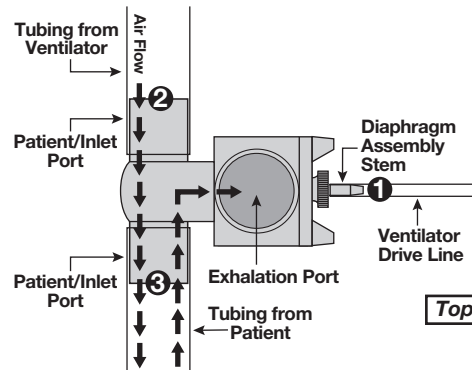


Side View

NS 30-115-5 NS 30-115-5L

Installation Directions

1. Connect Ventilator Drive Line to Diaphragm Assembly Stem. **①**
2. Connect Tubing from the Ventilator to one of the Patient/Inlet Ports. **②**
3. Connect Tubing from the Patient to the other Patient/Inlet Port. **③**

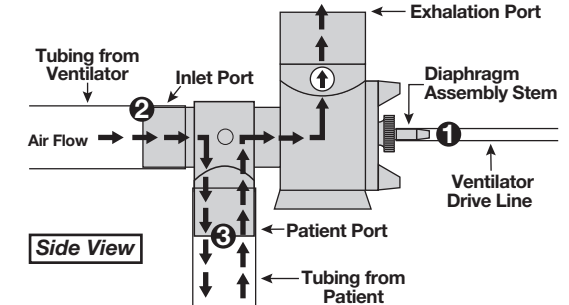


Top View

NS 30-115-U NS 30-115-UL

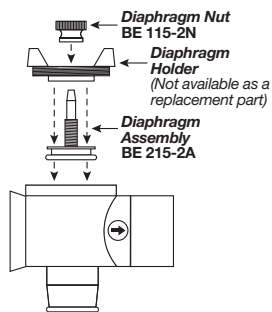
Installation Directions

1. Connect Ventilator Drive Line to Diaphragm Assembly Stem. **①**
2. Connect Tubing from the Ventilator to the Inlet Port. **②**
3. Connect Tubing from the Patient to the Patient Port. **③**

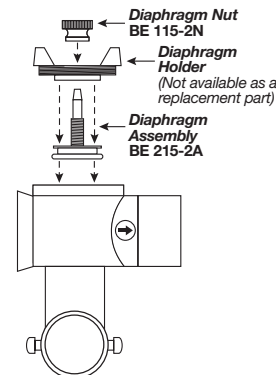


Side View

BE 30-115-B BE 30-115-BL Assembly & Replacement Parts Diagram



NS 30-115-5 NS 30-115-5L Assembly & Replacement Parts Diagram



NS 30-115-U NS 30-115-UL Assembly & Replacement Parts Diagram

