



BFC 1000E & BFC 3000E Installation and Maintenance

Thank you!

You have just purchased a quality Atlas Air & Water BFC 1000E or BFC 3000E Flow Control Valve.

With care in it's installation and maintenance, you can expect to have a long and economical service life. before you go any further, please take a few minutes to look over this information, then save it for future reference and for the useful service information it contains.

Installation

1. Depressureize and lockout air pressure.
2. Upstream pipes must be free of dirt and liquids.
3. Filters should be installed immediately ahead of Regulators to insure clean supply of air.
4. Install the BFC as near as possible to the receiver tank it serves.
5. Install the BFC so that air flows from inlet to outlet as shown on the head.
6. The BFC Regulators can be installed in any orientation.
7. The BFC Regulators should be installed upstream of any Lubricators in the airline.

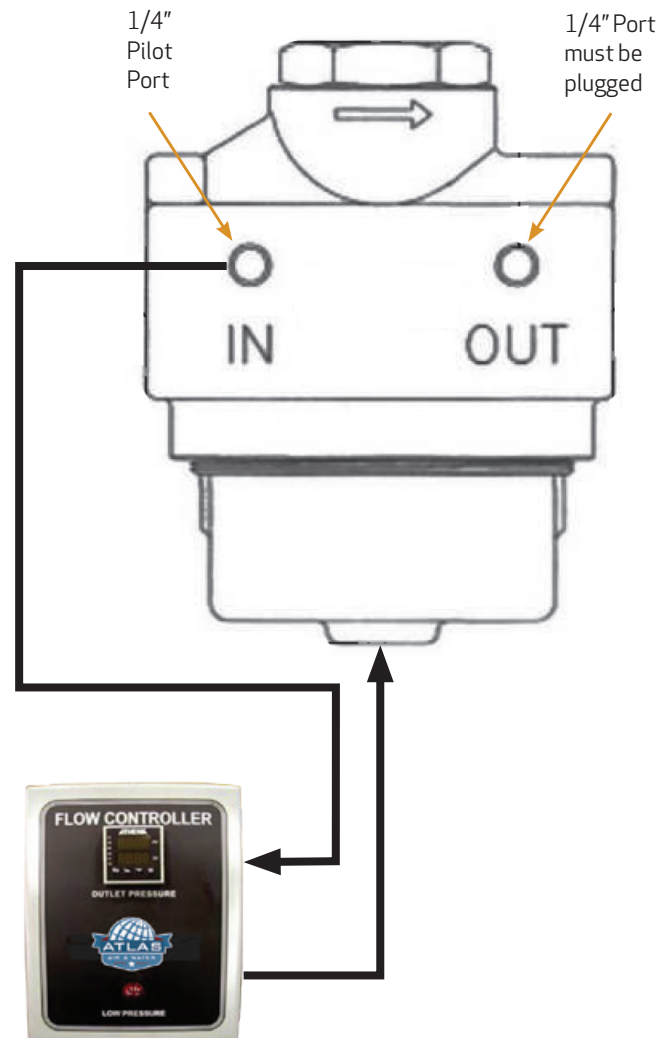
Operation

1. Outlet pressure of the BFC is dependent on the Control Panel. To increase the BFC pressure, touch the UP arrow. To decrease the BFC pressure, touch the DOWN arrow.
2. The top read is tank air pressure. The bottom read is set pressure of compressed air downstream of the BFC.

To Clean or Repair

1. Depressureize and lockout air pressure.
2. Remove dome by turning counter-clockwise.
3. Piston can now be removed.
4. Remove cap by turning counter-clockwise.
5. Valve Spring and Valve can now be removed.
6. When reassembling be sure that all seals are correctly located. Torque Cap and Dome to 80-100 ft-lbs.
7. If the BFC cannot be repaired by cleaning with soap and water, the parts should be replaced.

Information continued on back side.



BFC 1000E & BFC 3000E Installation and Maintenance

Safety, Technical and Operational Information

SAFETY INFORMATION

WARNING

- The Flow Control Products are designed to control the flow of compressed air which can cause serious personal injury, death and property damage at high air pressures.
- ATTENTION STATE IF CALIFORNIA USERS: Flow Control Products are not intended to be used in compressed air systems for use on humans or animals.
- Flow Control Products are suitable for non-hazardous locations only.
- EXPLOSION HAZARD! Do not disconnect Flow Control Products unless power has been removed or the area is known to be nonhazardous.
- Disconnect the air supply and de-pressureize all air lines connected to the Flow Control Product before installation or servicing.
- ELECTRIC SHOCK HAZARD! Disconnect the electrical supply to the Flow Control Product before installation or servicing.
- ELECTRIC SHOCK HAZARD! Misuse of the Flow Control Products can result in fire or death by electrical shock.
- Operate within the specified pressures, temperatures, and other conditions listed in the label.



- Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.
- Replace battery with type CR1225FH-LF, manufactured by Renata SA, only. Use of a different battery may present a risk of fire

TECHNICAL DATA

- Flow Control Products should not be connected to electrical equipment generating more than 120 volts.
- Operating Temp: 0° - 60° C
- Supply Pressure Range: 85-125 psig, 1/4" ID Compressed Air Line
- Humidity: Non-condensing

OPERATIONAL INSTRUCTIONS

- The Flow Control Products are designed for use primarily for compressed air. When other inert gases are used, e.g. nitrogen, the user must make suitable precautions so the buildup of the inert gas does not present a health hazard.
- Do not use an electrical ground that has an unstable impedance, such as painted screws, or ground subject to vibration.



PROP65 WARNING FOR CALIFORNIA RESIDENTS
WARNING: DO NOT USE FOR BREATHING AIR. NOT
SUITABLE FOR HUMANS OR ANIMALS.

www.p65warnings.ca.gov

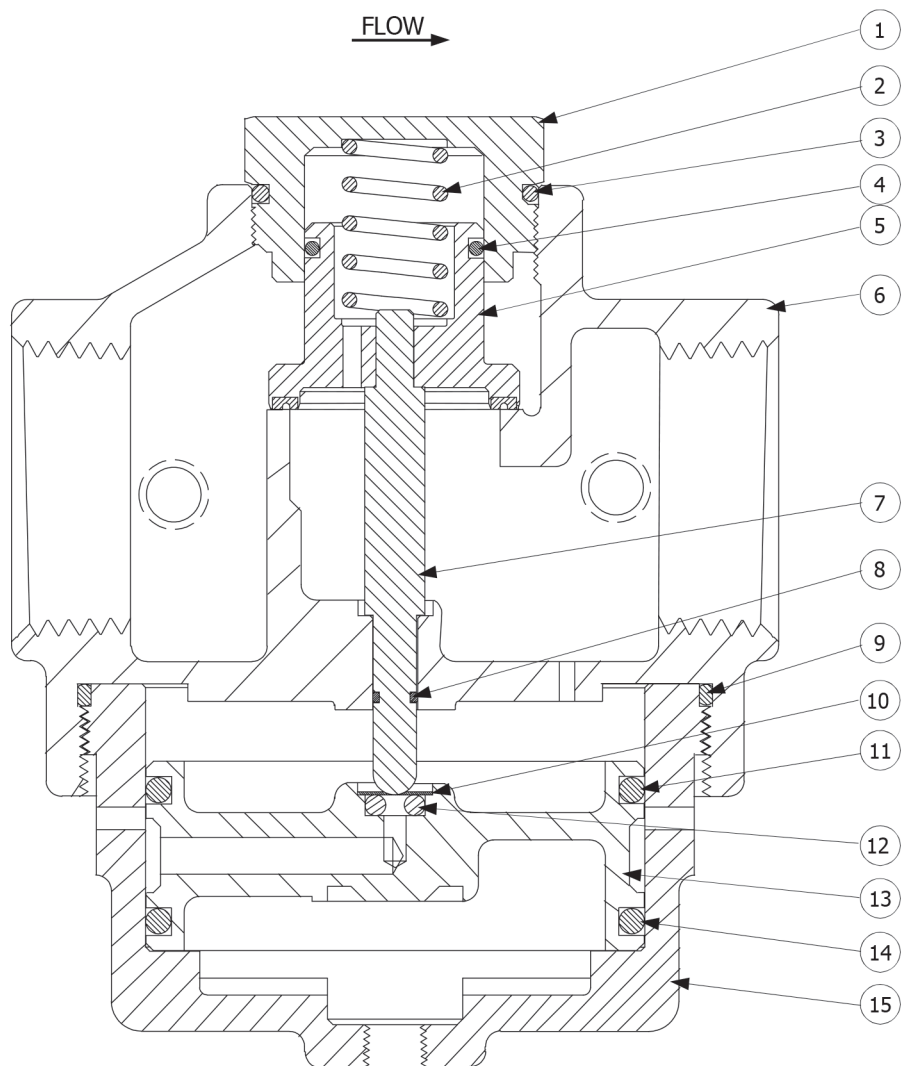


BFC 1000E Replacement Parts

PART NUMBER	DESCRIPTION
BFC KAR200	O-Ring Kit (Includes all 7)
BFC A37-89	Valve Assembly Kit
BFC A37-89V	Valve Assembly Kit - Viton
BFC A37-83	Valve Assembly Kit
BFC A37-83Q	Piston Assembly Kit - Constant Bleed

Replacement Parts

KEY	DESCRIPTION
1	Cap
2	Valve Spring
3	O-Ring
4	O-Ring
5	Valve
6	Head
7	Valve Stem
8	O-Ring
9	O-Ring
10	Retaining Ring
11	O-Ring
12	O-Ring
13	Piston
14	O-Ring
15	Dome

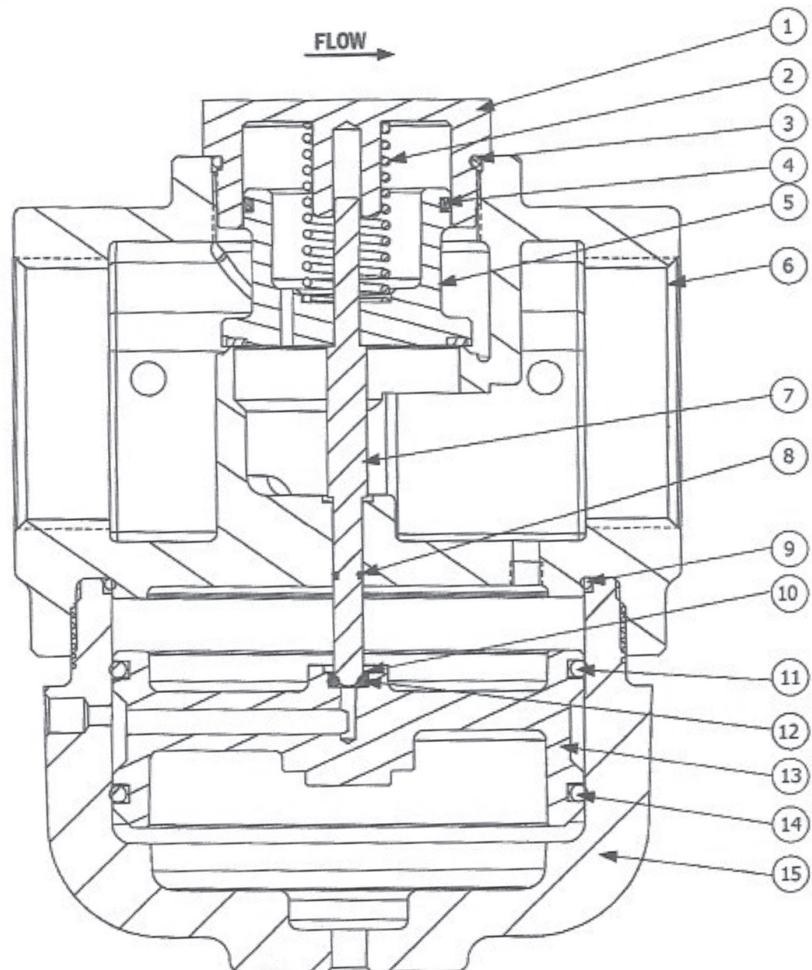


BFC 3000E Replacement Parts

PART NUMBER	DESCRIPTION
BFC KAPR300	O-Ring Kit (Includes all 7)
BFC KAPR300V	O-Ring Kit - Viton (Includes all 7)
BFC A37-264	Valve Assembly Kit (Valve Spring, O-Rings and Poppet Valve)
BFC A37-264V	Valve Assembly Kit - Viton (Valve Spring, O-Rings and Poppet Valve)
BFC A37-267	Valve Assembly Kit (Retaining Ring, O-Rings and Piston)
BFC A37-267V	Valve Assembly Kit - Viton (Retaining Ring, O-Rings and Piston)
BFC A37-267Q	Piston Assembly Kit - Constant Bleed (Retaining Ring, O-Rings and Piston)

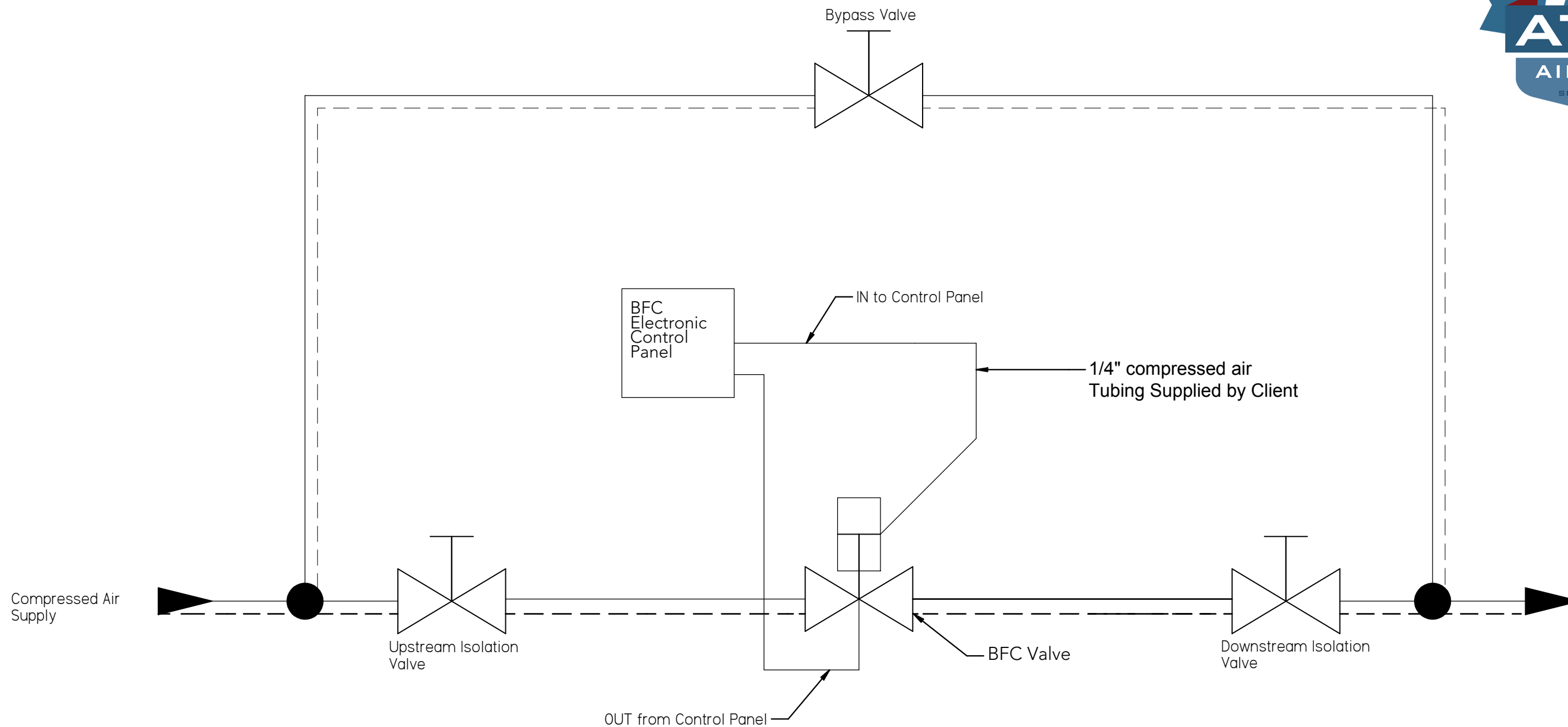
Replacement Parts

KEY	DESCRIPTION
1	Cap
2	Valve Spring
3	O-Ring
4	O-Ring
5	Poppet Valve
6	Head
7	Valve Stem
8	O-Ring
9	O-Ring
10	Retaining Ring
11	O-Ring
12	O-Ring
13	Piston
14	O-Ring
15	Dome



Atlas Air & Water, Inc.

BFC 1000 E & BFC 3000 E



This drawing also contains work to be done on site. All site work (to include site preparation/ construction, system component assembly and installation, etc.) must be done in accordance with all relevant local, state, and national building, electrical, and occupational safety codes and regulations. Product manuals must be read and understood by the end-user and any sub-contractor responsible for, and prior to, installation of the equipment. Installation guidelines in the manuals must be followed. All Danger, Warning, and Caution notes and decals in the manuals and on the equipment must be observed. All equipment must comply with the relevant safety codes and standards in force at the time of manufacture.

				Documents released by engineering are identified by these characteristics in the title block: Date of review/release and name of the reviewing/releasing individual.						
Project No. Status			Station Setup ID			Station ID				
07				Date	Name	Atlas Air and Water BFC 1000 E & BFC 3000 E				
06			Drawing	4/23/2019	mhuberty					
05			Review	4/23/2019	mhuberty					
04			Released	4/23/2019	mhuberty					
03			Template Rev. 24.04.2018				/			
02							Sketch	Page 1 of 2	Paper size	ANSI B /
01							P&I Diagram		Description	
00	Layout sketch	4/23/2019	mhuberty					Sketch	TD 1441	
Rev.	Modification	Date	Name	Original				Replaces	Replaced by	

- 1) Compressed air supply must be clean dry air.
- 2) Bypass recommended but not provided. Bypass installed by others.
- 3) Style of isolation valve (ball or butterfly) will vary depending on pipe size. Between isolation valves, on both sides of the BFC, a method to "bleed" the air line is required but not shown.