

BRISTOL FIRE DEPARTMENT

STANDING OPERATING PROCEDURE

**BAUER LEGACY 13 AIR COMPRESSOR, FILL STATION,
AND STORAGE SYSTEM**

DESCRIPTION

The Legacy 13 package combines the Legacy VTC 13 compressor with a storage system and fill station. This package is specifically for mid-sized fire departments and training academies. The compressor is combined with a NFPA 1901 compliant fill station and four 6,000 PSI UN/ISO storage banks for a complete air system.

Table of Contents

SOP:	Title:
6-01	Containment Fill Station (Cascade) Operating Instructions
6-02	Air Compressor Operation and Air Storage System Cylinder Filling Procedure

Bristol Fire Department Standard Operating Procedure

SECTION
6-01

Containment Fill Station
(Cascade) Operating Instructions

REVIEWED
08-15-2023
NEXT REVISION
12-01-2024

Purpose: To outline proper procedure for filling 4500 PSI and 2216 PSI SCBA air cylinders.

Scope: All 4500 PSI and 2216 PSI SCBA air cylinders filled by Bristol Fire Department.

Responsibility: Each employee that fills 4500 PSI and 2216 PSI SCBA air cylinders.

Policy: All 4500 PSI and 2216 PSI SCBA air cylinders will be inspected and filled following each use.



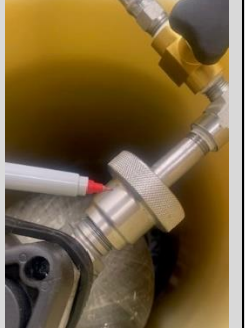



Procedure:

Step 1 Retrieve the *Fill Station (yellow) Logbook* and document the following information:

DATE	DEPARTMENT	CYLINDER #	HYDRO-DATE	PSI	BFD FF ID#
09-14-2023	BFD	14	04-23	4500	F-23
11-11-2023	LVFC	02	08-20	4500	F-8
05-01-2023	NHVFD	26	10-21	2216	F-13

STOP	<ul style="list-style-type: none"> Cylinders that have not been hydrostatically tested within the past 5 years <u>and</u> composite cylinders that are more than 15 years old, shall NOT be filled and tagged "out-of-service". ALL VALVES will be FINGER TIGHT ONLY. Turn valves RIGHT to CLOSE and LEFT to OPEN.
-------------	---

Step 2	Close Fill Valves #1 and #2.			
Step 3	The fill pressure regulator setting must not exceed the maximum working pressure of the SCBA cylinder (e.g., 4500 PSI or 2216 PSI).		or	
Step 4	Open fill station door (push down on blue handle to open).			

Step 5	Place SCBA cylinder(s) into the holder and connect the Fill Hose to the cylinder.	Fill Hose (Step 5)	Bleed Valve (Step 6)
Step 6	Close the fill hose Bleed Valve and select one of the following three options: STOP: NEVER FILL 4500 PSI AND 2216 PSI AIR CYLINDERS AT THE SAME TIME.		
	Option 1: Bristol F.D. 4500 PSI Air Cylinders	DO NOT OPEN CYLINDER VALVE!	
	Option 2: Other F.D. 4500 PSI Air Cylinders	Open the cylinder valve FULLY .	
	Option 3: Other F.D. 2216 PSI Air Cylinders	Open the cylinder valve FULLY .	
NOTE: All Bristol FD air cylinders are equipped with the "Quick-Connect" feature, therefore; DO NOT open these cylinder valves.			
Step 7	Close and lock fill station door.		
Step 8	Open desired Bank Valve <u>FULLY</u> .		
Step 9	Adjust pressure Regulator to the fill pressure (if needed).		
Step 10	Open Fill Valve(s). NOTE: Open Fill Valve(s) a quarter-turn only so the cylinder will fill slowly and not heat up.		
Step 11	If pressures have equalized before SCBA cylinder has reached desired pressure, close Bank Valve in use and open another Bank Valve. Repeat procedure until SCBA cylinder has been filled.		
Step 12	When filling is complete, close the Fill Valve(s).		
Step 13	Close the Bank Valve.		
Step 14	Open the fill station door (push down on blue handle to open door).		
Step 15	Close the SCBA cylinder valve and open the Fill Hose Bleed Valve to vent any residual pressure.		
Step 16	Disconnect the Fill Hose from the SCBA cylinder and remove the cylinder and remove the cylinder from the holder.		
Step 17	Close the fill station door.		

Bristol Fire Department Standard Operating Procedure

SECTION
6-02

**Air Compressor Operation and
Air Storage System Cylinder
Filling Procedure**

REVIEWED
08-15-2023
NEXT REVISION
12-01-2024

Purpose: To outline proper procedure for filling the 6000 PSI air storage system cylinders.

Scope: The four (4) 6000 PSI air storage system cylinders filled by Bristol Fire Department.

Responsibility: Each employee that fills 6000 PSI air storage system cylinders.

Policy: The 6000 PSI air storage system cylinders will be filled when two of the four cylinders are below 4500 PSI.

Procedure:

Step 1 The BAUER Legacy Air Compressor is located on the mezzanine. Once at the control panel, turn the black/green switch to the "ON" position. The compressor will automatically shut-off once the air storage system cylinders are full.

