

LVLP Compliance Gauge Kit and Air Caps

Use these kits and air caps with Trilogy® Manual and Automatic LVLP Spray Guns to ensure compliance with VOC (Volatile Organic Compounds) emission regulations.



CAUTION: If your location is subject to VOC emission regulations, make sure your spray gun atomizing pressure is 0.69 bar (10 psi) or less by checking with a compliance air cap. Refer to the charts on the following pages for maximum air inlet settings to achieve the 10 psi or less LVLP rating.

LVLP Gauge Kit and Compliance Air Cap Installation and Use

NOTE: The LVLP compliance air caps are sold separately from the gauge kit. Order compliance air caps of the same size as the production caps you normally use.

See Figures 1 and 2.

1. Shut off the fluid delivery system and relieve fluid pressure. This is not required, but it will prevent fluid from spraying while performing the compliance test.
2. Remove the retainer and production air cap from the gun. Install the compliance air cap on the gun and tighten the retainer securely. (The compliance air cap comes with its own retainer.)
3. Connect the gauges to the air cap.
4. Set the atomizing air regulator on the gun to MAX.
5. Pull the trigger all the way back to allow full flow of air.
6. Check the air pressure gauges. Both atomizing and horn pressures must be 0.69 bar (10 psi) or less. If either is higher, reduce the pressure.
7. Reinstall the production air cap and check the fluid atomization. You can check the atomization with the compliance air cap installed, just make sure the gauge tubing does not impinge the spray or kink.

NOTE: Gauge Kit and Air Caps sold separately.

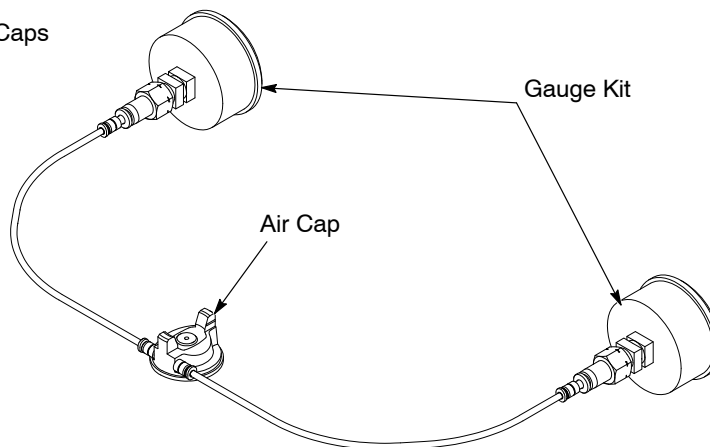


Figure 1 Compliance Air Cap and Gauge Kit Installation

Maximum Inlet Air Pressure for LVLP Compliance

The following tables provide air pressure settings you can use as approximate starting points. These results can vary; use the gauge kit and compliance air cap to ensure that the air output does not exceed 0.69 bar (10 psi).

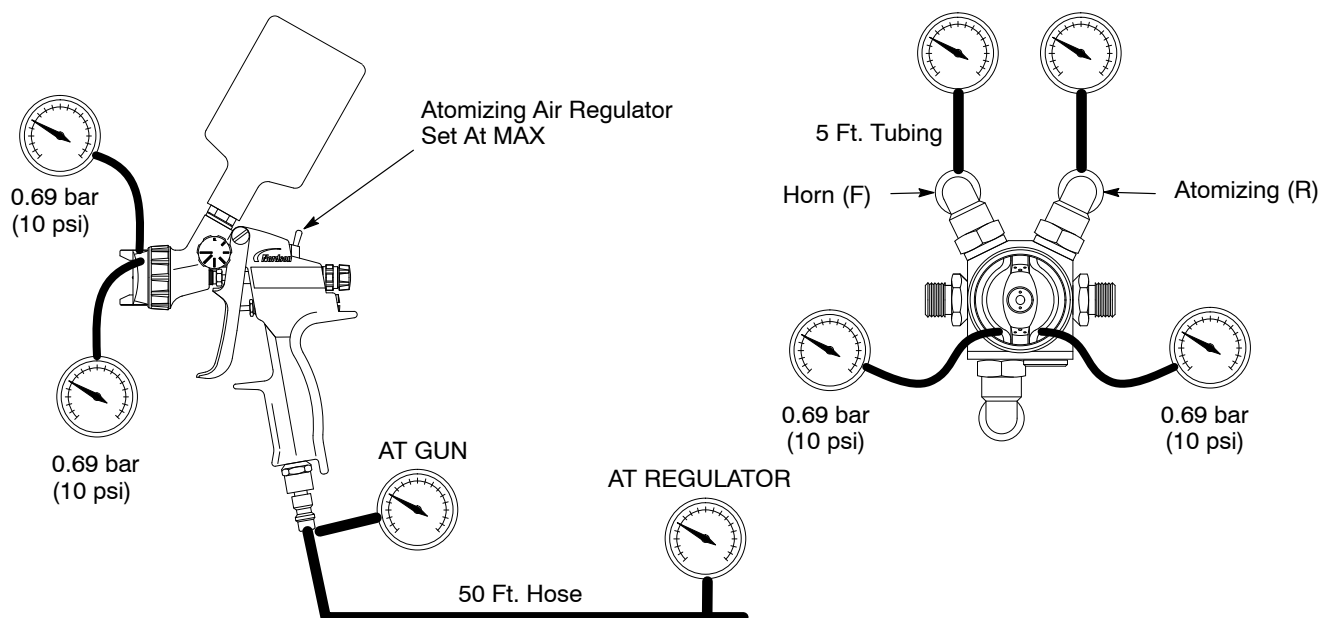


Figure 2 Inlet Air Pressure Settings for Manual and Automatic Guns (GP and AC manual guns shown)

Trilogy GP LVLP Gravity-Fed Manual Spray Guns

Size	Pattern Setting	Inlet Pressure		Air Cap Atomizing Pressure
		At Gun	At Regulator (A)	
A	Flat	1.4 bar (21 psi)	1.8 bar (25.5 psi)	0.69 bar (10 psi)
	Round	1.3 bar (19 psi)	1.5 bar (22 psi)	0.69 bar (10 psi)
B	Flat	2.0 bar (30 psi)	2.5 bar (36.5 psi)	0.69 bar (10 psi)
	Round	1.7 bar (25 psi)	1.9 bar (28 psi)	0.69 bar (10 psi)
C	Flat	2.4 bar (34 psi)	2.7 bar (40 psi)	0.69 bar (10 psi)
	Round	3.0 bar (43.5 psi)	3.2 bar (47.5 psi)	0.69 bar (10 psi)
D	Flat	2.4 bar (35 psi)	2.7 bar (39 psi)	0.69 bar (10 psi)
	Round	3.9 bar (57 psi)	4.4 bar (64 psi)	0.69 bar (10 psi)

NOTE A: Pressure readings at regulator made using 50 ft of 3/8 in. hose.

Trilogy AC LVLP Gravity Fed Manual Spray Guns

Size	Pattern Setting	Inlet Pressure		Air Cap Atomizing Pressure
		At Gun	At Regulator (A)	
A	Flat	1.9 bar (27.5 psi)	1.8 bar (25.5 psi)	0.69 bar (10 psi)
	Round	1.7 bar (25 psi)	2.3 bar (32.5 psi)	0.69 bar (10 psi)
B	Flat	2.3 bar (33 psi)	2.6 bar (37 psi)	0.69 bar (10 psi)
	Round	2.6 bar (38 psi)	2.9 bar (41.5 psi)	0.69 bar (10 psi)

NOTE A: Pressure readings at regulator made using 50 ft of 3/8 in. hose.

Trilogy LVLP Gravity Fed and Siphon-Fed Manual Spray Guns

Size	Pattern Setting	At Gun	At Regulator (A)	Air Cap Atomizing Pressure
A	Flat	1.9 bar (27.5 psi)	1.8 bar (25.5 psi)	0.69 bar (10 psi)
	Round	1.7 bar (25 psi)	2.3 bar (32.5 psi)	0.69 bar (10 psi)
A1	Flat	1.9 bar (27.5 psi)	2.2 bar (32 psi)	0.69 bar (10 psi)
	Round	1.8 bar (25.5 psi)	1.8 bar (26 psi)	0.69 bar (10 psi)
B	Flat	2.3 bar (33 psi)	2.6 bar (37 psi)	0.69 bar (10 psi)
	Round	2.6 bar (38 psi)	2.9 bar (41.5 psi)	0.69 bar (10 psi)
C	Flat	2.6 bar (37.5 psi)	2.8 bar (41 psi)	0.69 bar (10 psi)
	Round	5.2 bar (76 psi)	5.3 bar (77.5 psi)	0.69 bar (10 psi)
D	Flat	2.5 bar (37 psi)	2.9 bar (42.5 psi)	0.69 bar (10 psi)
	Round	6.0 bar (88 psi)	6.3 bar (91 psi)	0.69 bar (10 psi)

NOTE A: Pressure readings at regulator made using 50 ft of 3/8 in. hose.

Trilogy LP Automatic Spray Guns

Size	Pattern Setting	Inlet Pressure		Air Cap Atomizing Pressure
		Horn (F)	Atomizing (R)	
A	Flat	1.3 bar (18.5 psi)	0.8 bar (12 psi)	0.69 bar (10 psi)
	Round	0 bar (0 psi)	1.1 bar (15.5 psi)	0.69 bar (10 psi)
B	Flat	1.2 bar (17 psi)	1.0 bar (14.5 psi)	0.69 bar (10 psi)
	Round	0 bar (0 psi)	1.1 bar (16 psi)	0.69 bar (10 psi)
C	Flat	1.1 bar (16 psi)	2.1 bar (30 psi)	0.69 bar (10 psi)
	Round	0 bar (0 psi)	2.4 bar (35 psi)	0.69 bar (10 psi)
D	Flat	1.2 bar (17 psi)	2.2 bar (32 psi)	0.69 bar (10 psi)
	Round	0 bar (0 psi)	2.4 bar (35 psi)	0.69 bar (10 psi)

NOTE A: Horn and atomizing pressure readings made with 5 ft of 3/8 in. poly tubing.

Parts Lists**Gauge Kit**

The gauge kit must be ordered separately from the air caps.

Part	Description	Note
1603912	Kit, pressure gauge, air compliance	

Trilogy GP and AC LVLP Manual Spray Gun Compliance Air Caps

Part	Description	Note
1603857	Cap, air, test, Trilogy GP/AC LVLP, size A (0.5–1.2 mm)	
1603858	Cap, air, test, Trilogy GP/AC LVLP, size B (1.3–1.6 mm)	
1603859	Cap, air, test, Trilogy GP LVLP, size C (1.8–2.5 mm)	
1603860	Cap air, test, Trilogy GP LVLP, size D (3.0 mm)	

Trilogy LVLP Manual Spray Gun Compliance Air Caps

Part	Description	Note
1603861	Cap, air, test, Trilogy, gravity/siphon, size A (0.5–1.2 mm)	
1603862	Cap, air, test, Trilogy, gravity/siphon, size A1 (1.2 mm)	
1603863	Cap, air, test, Trilogy, gravity/siphon, size B (1.3–1.6 mm)	
1603864	Cap, air, test, Trilogy, gravity/siphon, size C (1.8–2.5 mm)	
1603865	Cap, air, test, Trilogy, gravity/siphon, size D (3.0 mm)	

Trilogy LP Automatic Spray Gun Compliance Air Caps

Part	Description	Note
1603866	Cap, air, test, Trilogy, LVLP, size A (0.5–1.2 mm)	
1603867	Cap, air, test, Trilogy, LVLP, size B (1.3–1.6 mm)	
1603868	Cap, air, test, Trilogy, LVLP, size C (1.8–2.5 mm)	
1603869	Cap, air, test, Trilogy, LVLP, size D (3.0 mm)	

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