# The Sata Air Micrometer




Adjusting air pressure properly is critical for optimal spray gun performance. Start by setting the micrometer in the vertical, wide open position (*On a Sata 5000 the adjustment knob is round, turning this counterclockwise will open the micrometer) . Next, adjust the regulator at the wall until the gun is at, or slightly above, desired operating pressure. If the material is being sprayed at 23 psi, for example, set the wall regulator to achieve 24-26 psi at the gun handle. Now the proper pressure is set, and SMALL (1-2psi) adjustments may be performed with the air micrometer.

Setting the wall regulator at high pressure, and adjusting the micrometer to achieve gun pressure, will cause undesirable changes to the spray gun's performance. As the air passage hole in the micrometer is closed, the velocity of air increases drastically. The air speed becomes so fast, in fact, that the air cap will not atomize the coating properly. When this condition exists, there are a number of errors that can occur. Blotchiness, texture, under application, dry spray and film build are concerns when the air pressure is not adjusted using the proper technique. The only time the micrometer should be closed is when the spray equipment is being cleaned in an automatic gun washer. For more information, see the Sata YouTube video on setting proper air pressure at https://youtu.be/RfWqL35Riho