

Adjustable Power Limiter Valve *for the GraverMax & GraverMate* Part Number 004-808

The GRS Power Limiter Valve restricts the escape of air through the air outlet in the foot control. This provides a control setting which limits the amount of impact produced by the handpiece. It works like a governor. When depressing the foot control the action of the handpiece will “max-out” at the desired setting of the Power Limiter Valve.

Before attaching this valve to your system, you need to be aware of some things. First, the location of the valve in the throttle air line will affect the action of the handpiece. Because air is compressible, there can be a slight delay in the response of the handpiece. The closer the Power Limiter Valve is to the foot control the less the delay. We normally recommend locating the Limiter Valve in about the middle of the throttle line. This will usually be about knee high on your bench, as shown below. This makes it handy to adjust and adds a minimal delay factor.

The delay is usually no problem to most users. If it causes a problem, move the Power Limiter Valve as close to the foot control as you can. This will eliminate the delay in handpiece response.

When changing to a different handpiece you may need to change the setting on the Power Limiter Valve, strokes per minute setting or the air pressure setting on the GraverMax or GraverMate.

INSTALLATION:

Attach the Power Limiter Valve in the best location describe previously. To connect the hose to the valve, simply inset the hose into the hole and push it in completely. To remove the hose, push the retainer ring “in” (Fig A) and hold it while pulling the hose out. If your hose is older and has deteriorated, replace it with the new one included. The extra coupler included with this kit is in case you want to move or remove the Power Limiter Valve..

