

# POWER VALVE SPECIFICATIONS

## APPLICATION GUIDELINES

Holley Replacement Parts Division recommends the following guidelines for optimum performance and economy gains from the use of two-stage power valves:

1. The two-stage power valve works most effectively in vehicles with a weight/engine displacement ratios of 14:1 or greater.
2. Greatest fuel economy increases will be seen on relatively heavy vehicles, such as recreational vehicles or full sized automobiles used in rolling or mountainous terrain or in stop and go driving.

Before any carburetor modifications are performed, it is highly recommended that an accurate vacuum gauge be installed in the vehicle. For best fuel economy, engine manifold vacuum must be kept above the power valve opening point (generally 8.5" or 6.5" vacuum). A two-stage valve provides for slight enrichment during medium accelerations, which will often prevent manifold vacuum from dropping low enough to open the second stage of the power valve. Any modification that results in higher vacuum readings will generally improve gas mileage.

### Models 4150, 4160, 4165, & 4175

1. Two-stage power valve should not be used in any vehicle which sees occasional drag strip use, or in any carburetors with power valve channel restrictions greater than .060" (this includes the 3310 and the conventional double pumper line which require high capacity power valves). Excessive leanness could result from the limited flow capacity of the two-stage valve.
2. The 125-206 or 125-208 and the 125-109 or 125-212 is recommended for most applications, while the 125-207 and 125-210 is recommended for vehicles which will see frequent high altitude use (above 4000 ft.).

**Power Valve Specifications**

Part Number	1 <sup>st</sup> Stage Opening	2 <sup>nd</sup> Stage Opening	1 <sup>st</sup> Stage Restriction
125-206 Model 4160-4150	12.5" Hg	5.5" Hg	.028"
125-207 Model 4160-4150	10.5" Hg	5" Hg	.021"
125-208 Model 4160-4150	10.5" Hg	5.5" Hg	.028"
125-209 Model 4175-4165	11" Hg	6" Hg	.024"
125-210 Model 4175-4165	9" Hg	2.5" Hg	.033"
125-212 Model 4175-4165	12" Hg	6.5" Hg	.040"

When the two-stage power valve is applied with these guidelines in mind, fuel economy and driveability improvements will often be realized and exhaust emissions will be unaffected.

# POWER VALVE SPECIFICATIONS

## APPLICATION GUIDELINES

Holley Replacement Parts Division recommends the following guidelines for optimum performance and economy gains from the use of two-stage power valves:

1. The two-stage power valve works most effectively in vehicles with a weight/engine displacement ratios of 14:1 or greater.
2. Greatest fuel economy increases will be seen on relatively heavy vehicles, such as recreational vehicles or full sized automobiles used in rolling or mountainous terrain or in stop and go driving.

Before any carburetor modifications are performed, it is highly recommended that an accurate vacuum gauge be installed in the vehicle. For best fuel economy, engine manifold vacuum must be kept above the power valve opening point (generally 8.5" or 6.5" vacuum). A two-stage valve provides for slight enrichment during medium accelerations, which will often prevent manifold vacuum from dropping low enough to open the second stage of the power valve. Any modification that results in higher vacuum readings will generally improve gas mileage.

### Models 4150, 4160, 4165, & 4175

1. Two-stage power valve should not be used in any vehicle which sees occasional drag strip use, or in any carburetors with power valve channel restrictions greater than .060" (this includes the 3310 and the conventional double pumper line which require high capacity power valves). Excessive leanness could result from the limited flow capacity of the two-stage valve.
2. The 125-206 or 125-208 and the 125-109 or 125-212 is recommended for most applications, while the 125-207 and 125-210 is recommended for vehicles which will see frequent high altitude use (above 4000 ft.).

**Power Valve Specifications**

Part Number	1 <sup>st</sup> Stage Opening	2 <sup>nd</sup> Stage Opening	1 <sup>st</sup> Stage Restriction
125-206 Model 4160-4150	12.5" Hg	5.5" Hg	.028"
125-207 Model 4160-4150	10.5" Hg	5" Hg	.021"
125-208 Model 4160-4150	10.5" Hg	5.5" Hg	.028"
125-209 Model 4175-4165	11" Hg	6" Hg	.024"
125-210 Model 4175-4165	9" Hg	2.5" Hg	.033"
125-212 Model 4175-4165	12" Hg	6.5" Hg	.040"

When the two-stage power valve is applied with these guidelines in mind, fuel economy and driveability improvements will often be realized and exhaust emissions will be unaffected.