

Thread Sizes

Table 21 provides a listing of the thread sizes used in the Zenith carburetor. This table provides information on the correct size tap to be used to clean the threads during restoration and to ensure the correct sized part is used.

<i>Description</i>	<i>Thread Size</i>
Idle Jet	M5x.75 (metric)
Cap Jet	M5x.75 (metric)
Main Jet	M5x.75 (metric)
Compensator Jet	M5x.75 (metric)
Air Adjustment Screw	M5x.75 (metric)
Drain Plug	3/8 - 24 (SAE)
Main Body Screw	3/8 - 24 (SAE)
Secondary Well	3/8 - 24 (SAE)
Idle Adjustment Screw	8 - 36 (SAE)
Choke Arm Attaching Nut	8 - 36 (SAE)
Gas Adjusting Valve Housing	3/8 - 24 (SAE)
Gas Adjusting Needle (NPT)	1/8 - 27 (NPT)
Fuel Inlet Port	1/2 - 20 (SAE)
Fuel Screen Assy	1/2 - 20 (SAE)
Float Needle Valve	1/2 - 20 (SAE)
Throttle Plate Screws (oval head)	5 - 40 (SAE)
Choke Plate Screws (oval head)	5 - 40 (SAE)
Mounting Flange - Carb/Manifold	5/16 - 18 (SAE)

Table 21, Carburetor Thread Sizes

The only unique thread size is that of the jets and the air adjustment screw; it is erroneously described as an SAE 10-34 but it is really Metric M5x.75. The Zenith Company was French and used a Metric size. The M signifies the thread is Metric, the value of "5" refers to the outside diameter of the threads (expressed in millimeters), the "x" is simply a connector and the ".75" is the thread pitch (expressed in millimeters). This M5x.75 size is no longer in common use, the world went to a new ISO standard that has a different pitch (.80mm vs. .75mm). You cannot use a M5x.80 tap to clean the carburetor threads since a tap with a different thread pitch will enlarge the threads in the carburetor and the jets will be loose in the body. There is a Metric M4.5x.75 size tap but it is too small to clean the threads. In the SAE 10-34 tap the "10" indicates the outside diameter of the threads while the "34" indicates the number of threads per inch. The pitch of the M5x.75 is 0.02953" while the pitch of the 10-34 is 0.02941" - a difference of 0.00012". This means the M5x.75 and 10-34 are close but the real difference is the quality of the taps available in these special sizes. My suggestion is buy one of the special M5x.75 taps from any good Model A supplier to restore your carburetor correctly and stay away from either the poorly made 10-34 taps or the wrong M5x.80 taps.