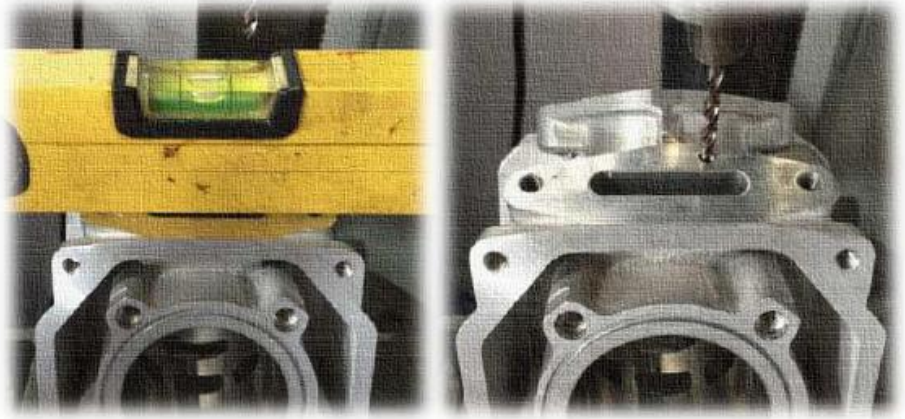# PNEUMATIC EXHAUST VALVE FOR APRILIA 122 & 123 ROTAX ENGINE 125/140cc

Italkit pneumatic exhaust valve to fit all Rotax 125cc and 140cc cylinders for the Aprilia RS125 both engines (122 and 123).

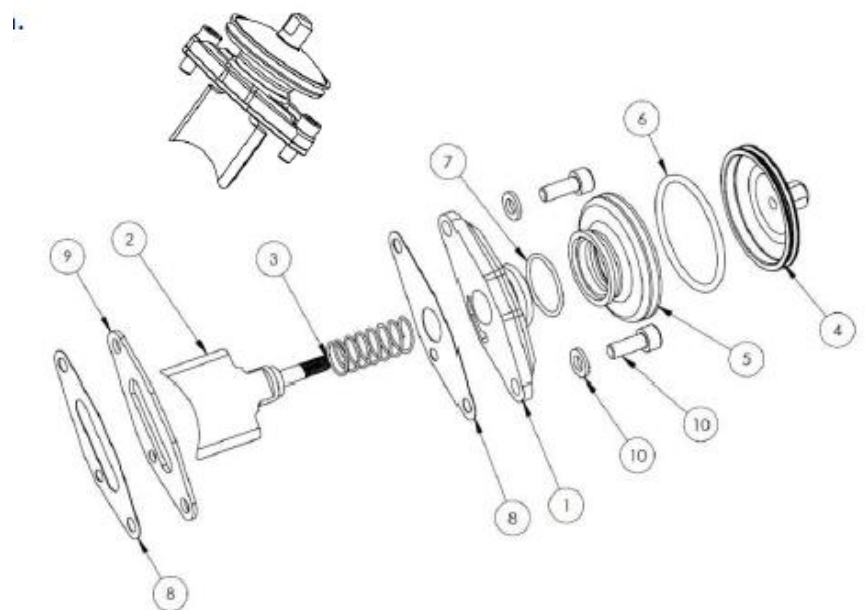This valve runs on exhaust pressure, it opens progesively between 7,800 and 8,000 R.P.M.

In the Aprilia engines that use the standard electronic powervalve the cylinder needs to be drilled to allow the exhaust pressure to run the new pneumatic valve. The hole needs to be 3.5mm Diameter and in line with the corresponeding hole on the new valve, to do this accurately you can use the gasket as a template.

IMPORTANT INFO FOR 140cc KITS: power valve spacer plate must be used to prevent loss in pressure.

ASSEMBLY INSTRUCTIONS

The pneumatic valve comes pre assembled and checked and is not recommended to be disassembled unless required. Here are some guides with an exploded diagram of the valve to follow for assembly.

Fig.1. Installation diagrams

1. To Assemble the rubber bellows(5) first put on the small spring ring (7) then push it over the base (1) until the rubber is completely seated correctly.

2. Put the gasket (8) on the top of the base (1) and then insert the valve with the spring (3) into the base hole.
3. If the valve is being fitted to a 140cc big bore kit the spacer plate (9) must be put on as well as the gasket ensuring all vacuum ports are aligned.
4. Now fit the power valve blade into the cylinder paying attention to the correct positioning of the blade and checking the vacuum ports of the valve match the one on the cylinder.
5. Insert Bolts and washers just loosely at this stage.
6. Now push the valve piston (4) into the rubber bellows (5)and insert the large spring to secure, now screw the valve piston (4) onto the blade with the use of a spanner to get it tight.
7. Finally tighten the 2 holding bolts (10) alternating one and the other. Check that the set is assembled correctly and that the valve slides freely otherwise loosen the bolts (10) and tighten again constantly checking valve clearance.