

Electronic SCV (Swirl Control Valve)

- The SCVs on the right and left banks are connected with a linkage mechanism, enabling both SCVs to be actuated with a single, compact motor, thus realizing a lightweight and compact construction.
- An SCV, which is provided at one of the two independent intake ports, opens and closes under the control signals received from the engine ECU.
- Closing one of the ports accelerates the speed of the intake air that flows through the other port, and strengthens the lateral turbulence in the combustion chamber. This results in promoting the atomization of fuel when the water temperature is low, thus stabilizing combustion. In addition, this improves combustion efficiency in the low-speed, light load range, resulting in improved fuel economy.
- Based on the engine speed, water temperature, and load signals, the engine ECU actuates the motor of the SCV in order to open and close the valve.

