Needs for large amount EGR is growing as a method of NOx reduction to meet EURO 6 regulation. The LPL system enables large amount EGR without lowering turbo efficiency. However, an intake throttle (THR) valve which is added to increase pressure difference in a conventional LPL system, results in doubling size and cost of the system. DENSO’s new Valve Unit reduces size and cost of the system by integrating an EGR valve and a THR valve into one unit using a cam link.

**Benefits**

- **Cost**: Reduced size and cost of system by integrating EGR valve and THR valve into one unit.
- **EGR flow**: Increase EGR flow with intake THR and without intake THR.

**Feature**

- Actuator miniaturized for smaller size and lower cost
- Cam profile only for flow characteristic adjustment