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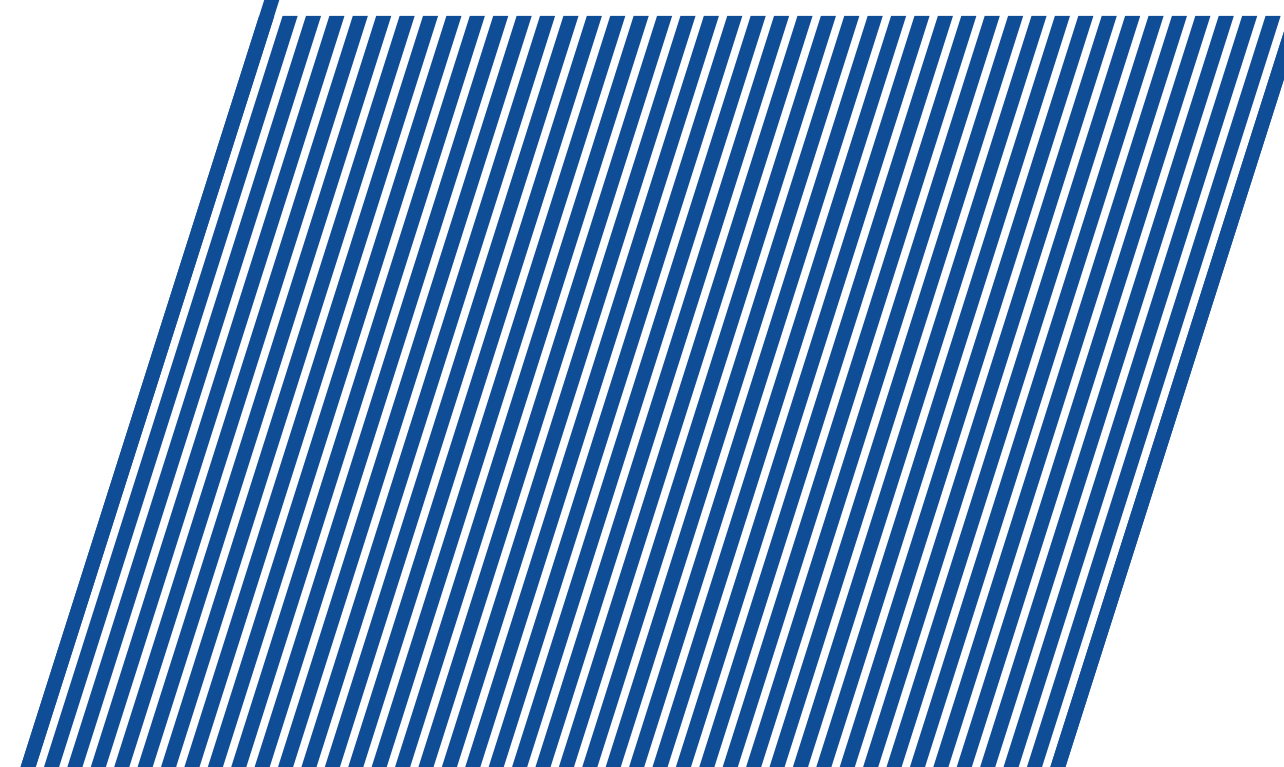
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## Products

PRODUCTS CATALOG

# Duty Control Valve (DCV) representing HAMANAKODENSO

## EVAP Purge Control Valve boasting the world's top share

A DCV is an electromagnetic valve used for supplying gasoline vapors generated in the fuel tank to the engine based on the driving status, by controlling the flow rate in response to electrical signals. Our DCVs have been widely adopted by car manufacturers worldwide because of their excellent basic performance, including high accuracy, low noise, and high durability. Another reason for our DCVs' success is our technical capabilities that enable speedy kaizen right after a failure has been identified, which is one aspect of "HAMADEN Quality."

## Six business domains and products

We introduce HAMANAKODENSO's products adopted by automobile manufacturers worldwide, including DCVs (EVAP Purge Control Valves), boasting the world's top share by business domain.

### Sensor business

The Sensor business domain detects the present and controls the future of vehicles.

We offer many different sensors that perform controlling and correction functions in various situations, including checking engine coolant temperature or intake air temperature, and operational detection of the accelerator pedal or electronic throttles. As the vehicle's electronic control system becomes increasingly sophisticated, our products are needed in a wider array of applications.



Non Contact Sensor:NCS



Knock Sensor



Intake Air Temperature Sensor

### Hydraulic control business

The Hydraulic control business domain provides hydraulic solenoids that control the vehicle's performance to move, turn and stop, coils for hydraulic control units, and many other products.

We offer solenoids and coils that control transmission shifting or braking by controlling the hydraulic pressure of an automatic transmission (AT) or anti-lock brake system (ABS).



Oil Pressure Control Sorenoide

### EVAP (evaporative emission control system) business

The EVAP (evaporative emission control system) business domain provides DCVs that boast the world's top share.

While EVAP regulations are tightened worldwide to help preserve the global environment, we provide a wide array of products installed on vehicles to check for EVAP leakage or inhibit the generation of gasoline vapors. These products are required to deliver high performance in any environment.



Duty Control Valve

### Horn business

Our first product, horn, which has a history of more than 70 years since our founding, is now regarded as one of the main products of HAMANAKODENSO.

A car horn is an acoustic device used as an alarm to notify a failure or danger to others. Our horn is not only incorporated in a car as a genuine part, but is also offered as an aftermarket part to be exchanged with a genuine part for its higher-quality sound.



Trumpet Type Horn



Disk Type Horn

### Valve system business

The Valve system business domain provides actuators including solenoids for intake/exhaust valve control.

We offer actuators such as solenoids intended to control variable valves in VCT systems, which control the opening and closing timing of the intake and exhaust valves in the engine combustion chamber, according to the driving status.



iVCT Solenoid

### Contract manufacturing business

The Contract manufacturing business domain responds to customers' expectations with our long-developed production technologies.

By using HAMANAKODENSO's production technologies and manufacturing know-how, developed over many years of operation, we can realize the quality, cost, and delivery time our customers require.



Duty Control Valve



Evaporative Leak Check Module



Vapor Containment Valve



Integrated Purge Valve



Fuel Cut Valve



Electric Vacuum Regulating Valve



Shift Actuator



Electric Combination Valve



Magnet Switch