

**Better life for
next generation**

UNICK

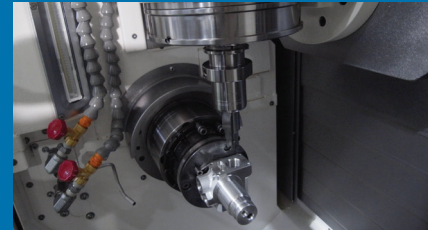
Manhae R&D center

Manhae R&D center, also known as Glashaus, has been a Unick's front line facility since its establishment on 1987. With our deep engineering expertise and highly experienced engineers, we are able to develop tailored-product for each customer's need.



Metal working center

Unick has built up a solid foundation of metal working center based on our extensive experience and know-how that has been developed for decades in the automotive industry. We pride ourselves to provide highest quality products and satisfaction to customers across the nation.



Quality center



Automatic Transmission tester

Evaluates capability to perform the evaluation of vehicle level in terms of $-30^{\circ}\text{C} \sim 120^{\circ}\text{C}$ with our solenoid valve.



Collaborative Robot

Is adept at adding flexibility to assembly processes that need to make small lots of highly individualized products.



3D CT system scanner

Evaluates internal and external part inspection in 3D using non-destructive testing method.



SEM (Scanning Electron Microscope)

Produces image of a sample by scanning it with a focused electronic beam.



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Company Overview

Development History

1973	Digital clock	2014	Solenoid actuator for 7 speed DCT
1985	Cigarette lighter	2014	Pneumatic solenoid valve for EGR bypass valve
1989	Mechanical EGR valve	2014	Fuel tank isolation valve
1992	On/Off solenoid valve for 4 speed AT	2014	Water level sensor
1993	ABS wheel sensor	2015	Proportional solenoid valve for 6 speed AT(Gen 2)
1999	Electronical EGR valve(Solenoid type)	2015	Proportional solenoid valve for oil pump in engine
2008	Proportional solenoid valve for 6 speed AT(Gen 1)	2016	Absorbent glass mat battery cap
2009	On/Off solenoid valve for 5 speed AT	2016	Thermal bypass valve
2009	EGR valve with DC motor	2017	Proportional solenoid valve for CVT(Gen 2)
2009	Speed sensor for MT(Shanghai GM)	2018	Hydrogen control valve for FCEV(Gen 2)
2010	Proportional solenoid valve for 8 speed AT	2018	Bypass valve(Valeo)
2010	EGR bypass valve	2019	USB charger(24V Hz)
2010	Analogue clock for Chrysler	2019	3 Way coolant valve
2011	Heating pad & Controller for heated steering wheel	2019	5 Way multi valve
2012	Proportional solenoid valve for CVT(Gen 1)	2019	Shift by wire actuator
2012	Analogue clock equipped with GPS	2019	Hydrogen tank solenoid system
2012	Automatic gear shift lever indicator	2019	IR warmer & Controller
2013	Hydrogen control valve for FCEV(Gen 1)	2019	Charging information for battery charge of PHEV and EV system
2013	On/Off solenoid valve for oil pump in engine		
2013	USB charger		

Fact & Figures



637

180

184m\$

Established

Employees in Korea

Employees in China

Annual Sales (fiscal year 2018)

Certifications

OHSAS
18001

ISO
14001

IATF
16949

CMMI
level 3

Powertrain Division

Unick makes superior solenoid valves for transmissions and engine applications.



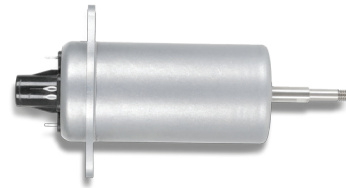
Proportional solenoid valve for 8 speed AT



Proportional solenoid valve for 6 speed AT (Gen 2)



Solenoid actuator for 7 speed DCT (Dual Clutch Transmission)



Solenoid actuator for 7 speed DCT (Gen 2)



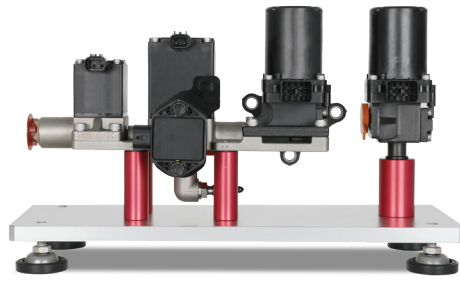
On/Off, Proportional solenoid valve for oil pump in engine (Oil Pump Control Valve)



Proportional solenoid valve for CVT (Continuously Variable Transmission)



Hydrogen control valve for FCEV
(Fuel Cell Electric Vehicle)



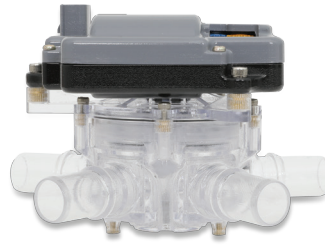
Hydrogen control valve
for FCEV (Gen 2)



Hydrogen tank solenoid
system



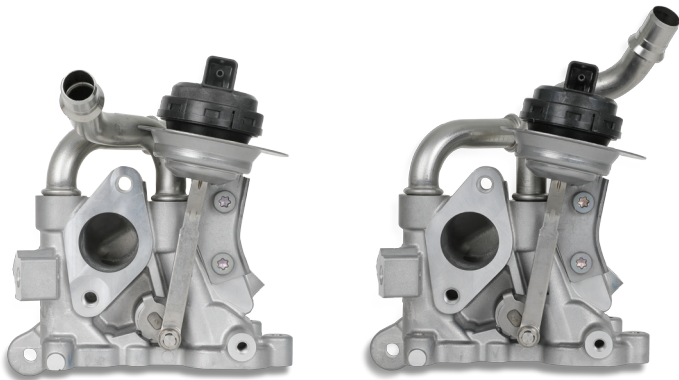
3 Way coolant valve



5 Way multi valve



Shift by wire actuator



EGR bypass valve



Fuel tank isolation valve

Control Division

Unick's high-efficiency and eco-friendly parts has been contributing or reducing of NOx(Nitrogen Oxides) emission and better fuel economy.

Electronics Division

IT technology is integrated into electric and electronic components for accurate reliability.



USB charger



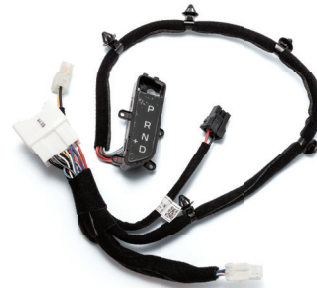
IR warmer



Heating pad & Controller for heated steering wheel



Analogue clock



Automatic gear shift lever indicator



Charging information for battery charge of PHEV and EV system



Speed sensor for AT



Cigarette lighter



Power outlet