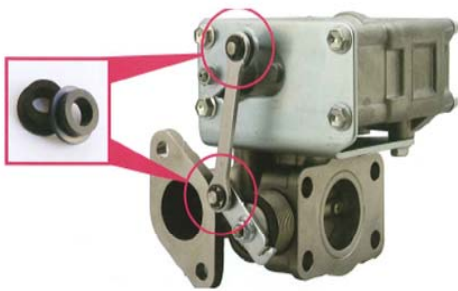
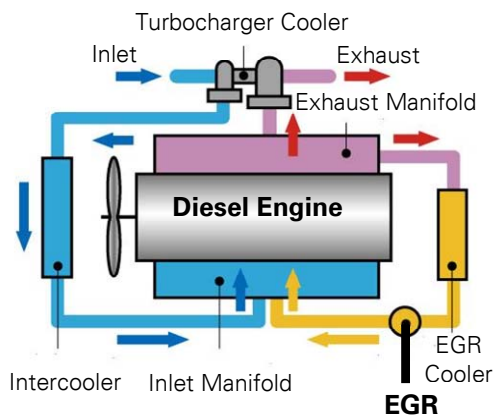


# DuPont™ Vespel® Bushings Adopted for EGR Valve

Application Profile: DuPont™ Vespel® SP bushings in new EGR (Exhaust Valve Recirculation) valve help deliver environmental improvements



DuPont™ Vespel® Bushings for EGR Valve



EGR designed & manufactured  
by TAIHO (Japan)



## Description/Application

### Taiho selects DuPont™ Vespel® bushings for a new EGR valve

Precisely controlled EGR valves are a critical component for achieving strict new emission standards for diesel engines. Vespel® bushings are helping to achieve these new levels of performance - in hot, dirty environments - by acting as the critical bearing surface in a new control-arm linkage designed by Taiho.

## Benefits to Customer

### Vespel® bushings help achieve emission standards

Vespel® SP parts maintain consistent performance over the life of the EGR valve despite operating in a very aggressive environment. The long-term dependability of the bushing helps ensure compliance to new emission standards.

## Material Selected and Why

### Excellent heat resistance, wear performance and self-lubrication

Vespel® bushings offer an excellent combination of properties including:

- High-heat resistance
- Self-lubrication
- Low levels of wear

The lack of a melting point or Tg enables Vespel® SP bushings to survive the high temperatures found near the engine and exhaust system. The self-lubricating characteristic allows the bushing to perform without lubrication even when exposed to the dirt and contamination found in the engine compartment – an almost impossible task for a metal bushing. The low-wear performance provides predictable, precise control of the EGR over the life of the component.



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**FAX +302 733-8137**

**ASIA PACIFIC**  
**DU PONT CHINA HOLDING Co., LTD**  
**ZHANGJIANG HI-TECH PARK 399**  
**KEYUAN ROAD, PUDONG NEW**  
**DISTRICT, SHANGHAI 201203, CHINA**  
**TELEPHONE +86 21 400 8851888**  
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