

# On/Off Highway | Product Detail

## Urea Doser Valve

### Description

The Urea Doser Valve injects controlled amounts of finely atomized diesel exhaust fluid (DEF) into the exhaust system upstream of the SCR catalyst. The urea is converted via thermal decomposition into ammonia. Inside the SCR catalytic converter, the ammonia then reduces the nitrogen oxides into environmentally safe water and nitrogen enabling customers to meet current and future emission regulations. LISK has a wide range of in-house testing capabilities including, but not limited to, Engine Dynamometer, International Standards Testing, Vibration Testing, Environmental Testing and Hydraulic / Pneumatic Testing.

- **Highest Flow Rates Available on the Market** - up to 13 g/sec (46.8 kg/hr)
- Highly customizable
- Finely atomized spray
- Various coil designs and connector options
- Low leakage and fast response times
- Internal filtration
- Mounts directly onto exhaust pipe
- Thermal robustness to 650°C (coolant required)
- Tested to 250M cycles (and counting)



### PATENTS

#### Doser Valve Products

US8671664 B2

#### System for Purging a Device

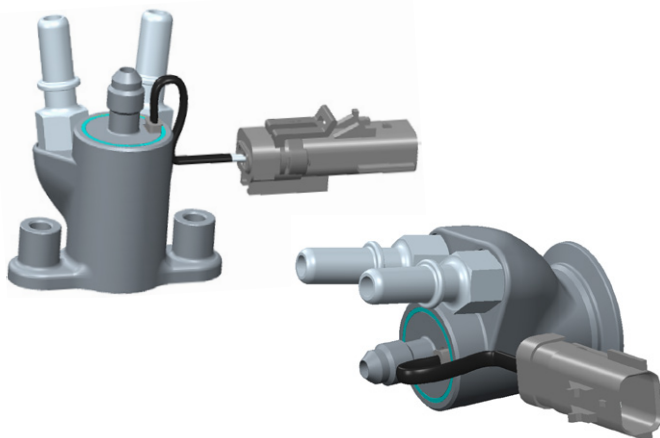
CA2721439 C

EP2279335 B1

#### Adjustable Doser Valve

US9146562 B2

JP 5448104



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LISK provides control valve solutions for the medium and heavy duty engines of global OEM's. Our emission control products allow our medium and heavy duty diesel engine customers meet EPA, Euro, and PNLT regulations. Our On/Off Highway Engine Valve Group includes:

- **DPF Hydrocarbon Dosing:** Inward and outward opening poppet designs for Mid Range and Heavy Duty applications
- **EGR:** Poppet and Butterfly designs, Hydraulic Solenoid Actuated and Electric Motor Operated ((with and without CAN control))
- **Natural Gas:** Fuel Control Valves, Fuel Shut-Off Valves, Fuel Pressure Regulators
- **Turbo:** Variable Geometry Control (VGT) & Waste Gate control valves
- **Waste Heat Recovery (WHR):** Exhaust Gas Diverter control valves and Refrigerant control valves for all applications

LISK uses in-house capability and collaborates closely with customers to design and activate their solutions.



### About G.W. Lisk Company

LISK is a global leader in the design and manufacture of custom solenoids, solenoid valves, LVDTs, and flame arrestors, providing custom-engineered solutions to customers in diverse markets including military, aerospace, automotive, commercial, and medical. We provide custom-engineered products and solutions to help customers meet demanding operational and strict environmental requirements in the following areas:

- Application Solutions
- Hardware Engineering
- Mechanical Design & Development
- Rapid Prototyping
- Qualification Testing
- Industry Certifications
- Vertical Integration (Manufacturing)
- Serial Production



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