

BMW/TOYOTA B58 GEN 2 HIGH-PERFORMANCE DIRECT INJECTION FUEL PUMP

Part # 06683

Engineered for High-Performance & Motorsports Applications

Stanadyne's BMW B58 Gen 2 350-bar high-pressure fuel pump is engineered to meet the increased fuel demands of high-performance and high-boost applications. Purpose-built as a performance solution rather than a modified OE pump, it delivers increased fuel flow while maintaining the pressure, durability, and packaging required by BMW's direct-injection system.



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TECHNICAL SPECIFICATIONS

STANADYNE PART # 06683

Engine Compatibility	BMW/Toyota B58 Gen 2 3.0L turbocharged I6
Fuel Pressure Capability	350 bar
Fuel Types	Gasoline, E10-E85
Installation	Direct bolt-in (proper install height must be measured)
Engine Speed	Up to 7,000 RPM

Performance & Compatibility

- Increased fuel delivery for high-horsepower and high-boost applications
- Designed to support increased fuel demand at high engine load and WOT

Advanced Fuel Delivery Technology

- High-flow large-plunger architecture
- Purpose-built for increased fuel delivery over the OE pump (up to 30% more flow)
- Optimized pumping elements for high-speed, high-load operation
- Finite Element Analysis (FEA)-validated structural design

Internal Pressure Relief Valve

- Prevents over-pressurization of the fuel system
- Fail safe for high flow, high pressure operation

GX Key Design Enhancements

- High-flow architecture engineered for increased fuel delivery over the OE pump
- Large-plunger design optimized for B58 Gen 2 performance applications
- Upgraded spring system engineered for stable high-speed operation
- Optimized spring loading and retention for durability and precise component control
- Application-specific packaging designed around the BMW/Toyota B58 Gen 2
- Optimized inlet and discharge passages to reduce restriction and maximize fuel delivery
- Engineered to maintain consistent 350-bar high-pressure fuel delivery at WOT and high engine load

Stanadyne®

Fueling Innovation

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