

BILSTEIN SHOCK ABSORBERS & SUSPENSION – A WORLD ICON in the industry!

Proven design technology, a superior manufacturing process and a commitment to quality control characterise the Bilstein shock absorber production process. At Bilstein over 40% of the production personnel are involved with quality control to maintain their industry-leading level of shock absorber efficiency and long life performance. In this pursuit of excellence, Bilstein has received worldwide acclaim for quality shock absorbers that have set new industry standards. Setting high standards has always been a top priority with Bilstein and a consistent set of parameters and performance guidelines go into the development of each Bilstein shock application. Bilstein engineers meld proven methods with the most advanced technologies for products that pass the test of time.

They perfected the mono-tube gas pressure shock absorber, a new design which revolutionised the shock absorber industry in Germany and the world. August Bilstein established 16 worldwide patents on the development of their mono-tube gas pressure shock absorber design. They worked closely with Daimler-Benz and in 1958 Bilstein became standard equipment on all Mercedes-Benz models, beginning an association that continues today. To further strengthen their position with automotive manufacturers worldwide, Bilstein outfitted factory race cars with their shock absorbers to demonstrate their superior performance. This started an unparalleled record of motor sports success at racing venues the world over.

BILSTEIN TECHNOLOGY:

Driving a vehicle equipped with Bilstein Gas Pressure Shock Absorbers is an exhilarating experience. There is, quite literally, nothing like it.

Unbelievable, Control and Stability.

Precise Handling.

Ultimate Performance and Comfort.

Fully Rebuildable

Bilstein has been a unique and driving force in the automotive suspension industry. Bilstein was first to apply the patented gas pressure principle to controlling ride characteristics on vehicles and cars and introduced the world's first mono-tube gas pressure shock absorber. Today, Bilstein continues to be the leader in mono-tube gas pressure shock absorber technology. No other shock manufacturer has been able to equal the performance and enhanced ride characteristics of the Bilstein shock.

From racing and testing in Formula 1, Rallying and Off Road to original equipment on BMW, Ferrari, Jaguar, Mercedes Benz, Porsche, Subaru, Toyota, TRD, GM, Ford, and Chrysler vehicles, Bilstein Gas Pressure Shock Absorbers have proven to be the best.



Ride, Handling and Control are what a shock absorber provides. Bilstein's patented design reduces the need for compromise.

The rising rate valving of the Bilstein shock absorber provides the necessary damping to react quicker to road conditions without sacrificing ride comfort. This combination of valving and high pressure nitrogen gas @ around 25 atmospheres of pressure keeps the tires in constant contact with the road helping to ensure safety through enhanced control.

ADVANCED TECHNOLOGY » BETTER BY DESIGN

Heat is one of the major detriments to the performance and longevity of any shock absorber. Conventional designed shocks trap the heat within the shock body and preventing adequate dissipation, making them prone to heat build up, fade and eventual failure.

Bilstein's technically superior, patented mono-tube Hi-Pressure gas charged design allows the excessive heat from the oil to transfer to the outer surface of the shock body and dissipate more efficiently. The dividing piston also permits the oil to expand as heat builds, preventing aeration (foaming) and viscosity loss and increasing the pressure of the gas on the oil column. This allows the shock to maintain full damping characteristics as temperatures rise.



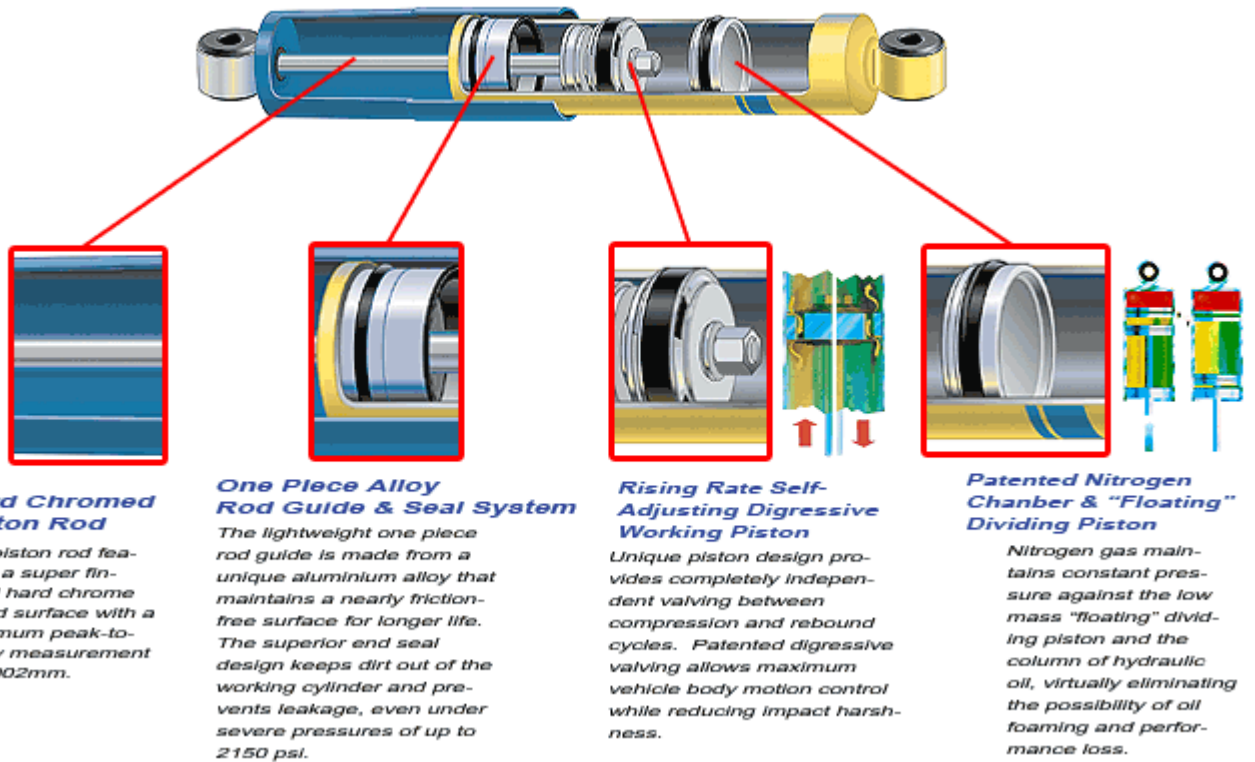
Superior Mono-tube Design & Fabrication

The tube of a Bilstein Gas Pressure Shock Absorber is fabricated using a special extrusion method. This process achieves an extremely tight peak-to-valley tolerance and maintains consistent wall thickness. Bilstein's seamless mono-tube design provides superior tube strength while maximizing heat dissipation and shock absorber life.

ADVANCED TECHNOLOGY » BETTER BUILT

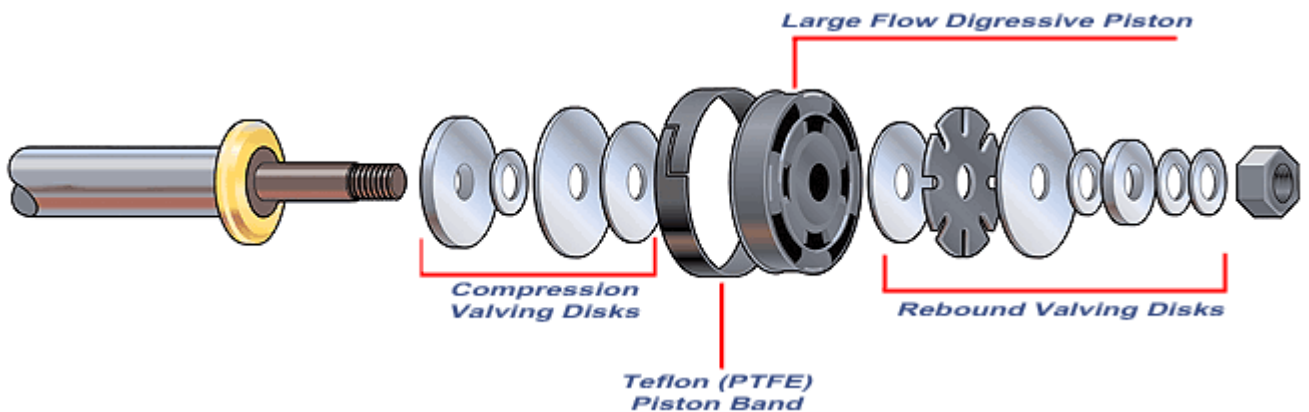
Most conventional shocks are made with shock bodies cut from a piece of steel tubing, stamped internal parts and compromised tolerances.

In contrast, Bilstein's shock bodies are precision formed through a unique seamless extrusion process. This provides superior strength along with high finish tolerances that are usually associated with surgical instruments. The shock body is then treated with a special paint finish durable enough to withstand gruelling 240-hour salt spray tests. The finished body is mated with a solid, induction hardened steel chrome plated and polished shaft, machined valving components and highest quality seals. Combined with extreme attention to detail, Bilstein manufactures the closest thing to a hand built shock available today.



Digressive Working Piston Assembly

The piston head design allows independent tuning of the compression and rebound damping forces to provide optimum ride comfort and performance without compromise. It features fewer parts than most conventional twin tube and so called "road sensing" shock designs. This simple, yet exceptionally functional digressive design contributes to the extreme durability and long life of Bilstein Shock Absorbers.



PATENTED PERFORMANCE » SAFER DRIVING THROUGH SUPERIOR CONTROL...

Ride, handling and control are what a shock absorber provides. Compromise in one area may create a problem in another. Bilstein's patented design reduces the need for compromise. The rising rate valving of the Bilstein shock absorber provides the necessary damping to react quicker to road conditions without sacrificing ride comfort. This combination of valving and high pressure nitrogen gas keeps the tires in constant contact with the road helping to ensure safety through enhanced control.

KILOMETRES 0k 30,000k 65,000k 95,000k 125,000k 160,000k DRIVEN



Conventional shocks slowly lose efficiency and eventually fail over a period of time, causing excessive tire and suspension component wear, a loss of control of the vehicle and longer braking distances. Bilstein shocks continue to deliver optimum performance for a much longer life.

Of all a vehicle's suspension components, nothing works harder than the shock absorbers, making it critical to pick the correct ones. Bilstein Gas Pressurised Shock Absorbers are the best way, to dramatically improve the ride, handling and control of your 4WD recreational vehicle that spends 80-90% of it's life in the urban jungle and along our freeway and poor highway and secondary bitumen and dirt roads roads. These are the driving conditions that benefit most from the Bilstein 'Rising Rate' Mono-Tube Gas experience.

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