



Lubricator Elastomeric Bumper Spring

Weatherford's elastomeric bumper spring is an optional upgrade to the standard steel spring shock absorbers and can be easily retrofitted in existing Weatherford plunger-lift lubricators. Developed by Weatherford and a leading global provider of thermoplastic-elastomeric energy-management systems with over two decades of experience, the new "shock absorber" provides many advantages over traditional steel-type absorbers used in plunger-lift operations. The elastomeric shock-absorber material is inert, making it impervious to most chemicals, oils, and greases. The bumper spring does not dry-rot, crack, or fall apart, ensuring the operational life is 10 times that of rubber and 20 times greater than urethane.

Applications

- All plunger-lift wells, but especially any wells capable of high gas velocities and high impact
- Cold-weather or corrosive environments
- Field-proven in both sweet and sour gas wells

Features, Advantages and Benefits

- The durability of the lubricator elastomeric bumper spring is 10 times longer than rubber and 20 times longer than urethane, improving cost savings over the entire operation.
- The increased shock absorption reduces the risk of plunger and lubricator damage, enhancing rig safety and reducing operational expenditures.
- A temperature rating of –40 to 150°F (–40 to 65°C) makes the bumper spring fit for all weather conditions, improving operational standardization and flexibility.
- The inert materials are impervious to chemicals, oil, and grease, enabling the bumper spring to be used for corrosive-gas environments.





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Specifications

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| Length (in./mm) | 10.10 256.54 |
| Inside diameter (in./mm) | 1.43 36.32 |
| Outside diameter (in./mm) | 2.40 60.96 |
| Weight (lb/kg) | 0.71 322.05 |