

Severe-Service (SS) Series Plunger

Ceramic-level durability with zero risk of debonding or thermal shock

Applications (Typical)

- Saltwater disposal
- Pipeline injection
- Amine sweetening
- Glycol dehydration
- Hydraulic lift

Features and Benefits

- Extremely dense, cobalt-based, tungsten-carbide and coating provides a wear-resistant, low-porosity layer for a superior combination of long-life performance, strong durability, and corrosion resistance
- Enhanced plunger coating remains smoother and free of grooves longer, allowing the packing to also perform longer.
- Single-piece component eliminates possibility of adhesive failures typical with ceramic plungers, where metal-to-ceramic adaptor bonds can fail, causing separation and shattering of ceramic barrel
- Advanced coating-application process creates a low-friction surface that improves packing life
- Stainless-steel base material provides optimal corrosion resistance
- Universal design is compatible with all Weatherford pumps and select models from NOV, ChampionX, and others

Component Description

The Weatherford Severe-Service (SS) Series Plunger is a premium, wear-resistant plunger featuring a high-tech, cobalt and tungsten-carbide coating that improves production performance in reciprocating pumps with all types of packing. Its dense, severe-service coating more than doubles the service life of the plunger, when compared to conventional industry systems and standards.

The Severe-Service (SS) Series Plunger features a stainless-steel base for added endurance against the wear and damage caused by corrosive fluids. The plunger is also suitable for use in both high- and low-temperature applications across a wide range of fluids. Plus, unlike ceramic plungers, there is no risk of thermal shock that can shatter or cause bonding failures resulting in shattering of the ceramic plunger.

Internal test results have shown the Severe-Service (SS) Series Plunger provides twice the performance life over conventional, industry-standard tungsten-carbide plungers in most applications.



The Weatherford Severe-Service (SS) Series Plunger provides long-lasting pump performance featuring its tungsten carbide, low-porosity coating and stainless-steel base that extends productive life and resists corrosive damage from harsh fluids.



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Pump Compatibility

Part Number	Size	Fits Weatherford Pump Models	Fits NOV Pump Models
3172624	1.500 in. (38.100 mm)	W165, W200, W300	J165, 165T-5, 200T-5, J275, 300Q-5
3172622	1.625 in. (41.275 mm)		
3172620	1.750 in. (44.45 mm)		
2979187	1.875 in. (47.625 mm)	W165, W200, W250, W300, W375, W435	J165, 165T-5, 200T-5, 250T-5, 300Q-5, 415Q-5
2979190	2.000 in. (50.800 mm)		
3126734	2.250 in. (57.15 mm)		
3126625	2.500 in. (63.5 mm)		
3057353	2.750 in. (69.850 mm)		
2994485	3.000 in. (76.200 mm)		
3057359	3.250 in. (82.550 mm)		
2994487	3.500 in. (88.900 mm)		
3057361	3.750 in. (95.250 mm)		
3126631	4.000 in. (101.600 mm)		
3126637	4.25 in. (107.950 mm)	W250, W300, W375, W435	250T-5, 300Q-5, 415Q-5
3126641	4.500 in. (114.300 mm)		

