

AgitatorZP System

Superior reliability. Maximum drilling performance. Zero pressure.

Downhole Technologies



Zero Pressure is the new standard.

The Agitator™ZP System offers the same friction reduction benefits as our premium Agitator systems, with ZERO pressure drop across the tool.

It is specifically designed for premium applications where standpipe pressure (SPP) limitations are a challenge. NOV's new zero-pressure Agitator technology maximizes weight transfer and improves directional control, particularly in long lateral sections where other friction reduction technologies simply cannot be run due to pressure or flow rate limitations.

This innovative zero-pressure technology provides necessary friction reduction in drilling applications with high SPP demands or in applications requiring dual friction reduction tools to reach complex targets while maintaining the highest rates of penetration (ROP). The new AgitatorZP System is the optimal technology to improve drilling performance in operations where system pressure is critical, such as smaller pump capacity rigs or those running smaller drill pipe sizes.



Technical Data

OD	5¼ in.	6½ in.
Length	23 ft	30 ft
Weight	1,267 lb	2,693 lb
Flow rate	200-450 gpm	450-750 gpm
Pressure drop	Zero	Zero
Drilling fluid loss to annulus*	6-7%	5-7%
Temperature rating	320° F	320° F
Operating frequency	8-12 Hz	8-12 Hz
Maximum opening travel	2.5 in.	2.4 in.
Maximum closing travel	2 in.	2.8 in.
Tensile yield	395,000 lb	790,000 lb
Torsional yield	31,500 ft-lb	59,000 ft-lb
Connections	XT39, XT43, 4" FH, Delta™ 425, GPDS40, GPDS42, CET40, CET43	4½" IF, XT50, XT57, Delta494, Delta527, Delta544, GPDS50, GPDS55, CET50, CET54, PTech55, TSDS50, HLST54

* The AgitatorZP system will release 5-7% of the drilling fluid to the annulus.





Benefits

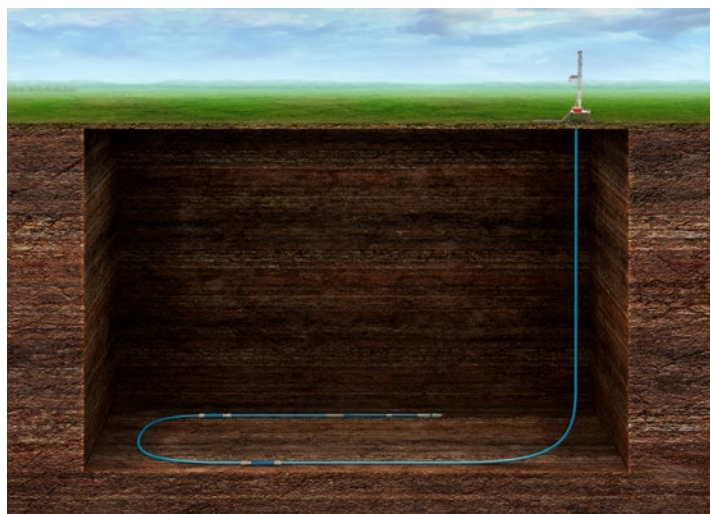
- Greater flexibility in extended-reach operations, 2+ mile laterals, and dual friction reduction tool applications
- Maximize motor differential in long laterals where flow rates are reduced due to pressure limitations
- Maximize weight transfer in the most demanding applications
- Improve drilling efficiency when rotating and sliding
- Reduce stick-slip and torsional vibration with rotary steerable system bottomhole assemblies
- Maintain ROP in extended reach/lateral sections
- Drill farther and drill faster
- Improved MWD signal decoding compared to competitors

Applications

- 2+ mile lateral sections
- Dual Agitator System strings
- SPP-constrained applications
- Rigs with no available SPP for Agitators
- Applications with a high risk of loss circulation
- Straight or U-turn laterals

Double down at half the pressure drop with AgitatorX2 featuring AgitatorZP.

Drilling extended laterals—whether 2-mile laterals (straight or U-turn) or demanding 3-mile runs — necessitates two Agitators in the string to effectively manage friction. Meet the first Agitator tandem designed to deliver powerful friction-breaking performance with a pressure drop of just one. With the only Agitator on the market with zero pressure drop, NOV's AgitatorZP can be seamlessly coupled with either a flow-activated or dart-activated tool, generating strong agitation while cutting the standard pressure drop in half.



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