

Well Construction

Cementing Technologies

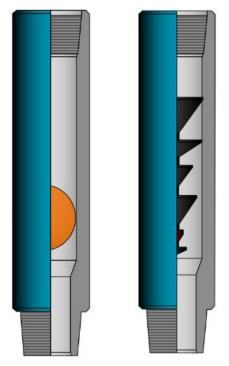
6 5/8" Wiper Ball and Dart Drop Sub

Expro's 6 5/8" Wiper Ball and Dart Drop Sub allows foam and polyurethane wiper balls and darts to be pre-loaded into an enlarged-ID handling sub and made up to the drill pipe for quick deployment into the landing string after completion of cementing operations.

Features and benefits

- 6 5/8" FH connections with large 5 1/2" ID makes loading foam and polyurethane balls and darts easier, while maintaining API connection ratings
- Reduces risk of loading balls or darts into drill pipe over the rotary
- Can be run above HD Top Drive Swivel to launch balls or darts when flow around capability is not required
- Can be run below HD Top Drive Swivel to launch balls or darts when flow around capability is not required
- Reduced safety hazard and dropped object risks while loading wiper balls or darts into drill pipe
- Saves rig time by not having to force foam or polyurethane wiper balls into drill pipe
- Reduced likelihood of damaging wiper ball or dart during difficult installations

Specifications	
Maximum hookload	2,650,000 lbs
Maximum working pressure	10,000 psi
Make-up torque	70,900 ft-lbs
Maximum torque	130,200 ft-lbs
Maximum OD	8 1/2"
Pin ID	3 1/2"
Overall length	4'
Ball/dart chamber ID	5 1/2"
Ball/dart chamber length	30"







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Foam wiper ball specifications	
Material	Polyisoprene (polyurethane) natural
Longevity	Extended-life polyurethane formula
Parting strength	380% to 440%
Swelling	5% in water
Deformation pressure	32 psi - 65 psi (22 N/cm² - 45 N/cm²)
Temperature	-40°F to 250°F (-40°C to 121°C)
Breaking elongation	440%
Abrasive resistance	Good
Elastic to	-40°F (-40°C)
Material	Natural polyurethane vulcanized at 311°F (155°C)
Flammability	High flammability, burns with soot
Stabillity	Not available with acids, alkalis, oils, fats and solvents

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