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A Complete Cementing Line Solution

Centralization, Standoff, Cementing, Casing Cleaners



Float Shoe

Pinnacle's PDC drillable integrated check valve in float shoe prevents fluids from entering casing as its being lowered into the hole. It also inhibits reverse flow or U-tubing of cement from annulus into the casing while allowing circulation down through the casing.

Pinnacle float shoes are available in single valve, double valve, up-jet and down-jet configuration.

Casing Sizes: 4-1/2" – 22"

Float collar provides seat for cementing plugs during primary cementing operation. It is fitted with poppet check valve which allowing fluid to pass downwards. The space between float shoe and float collar provides containment area to entrap contaminated fluid from wiping action of top cementing plug, securing contaminated fluid away from shoe. Float collars are available in single valve, double valve, up-jet, down-jet and stab in configuration.

Casing Sizes: 4-1/2" – 22"



Float Collar

Primary purpose of guide shoe is to guide casing to required depth and reinforce lower end of casing. It also guides casing towards hole center and minimizes problems associated with hitting rock ledges or washouts in the wellbore. Guide shoe nose orifice allows debris to exit without obstruction.

Guide shoes are available in Up-jet and Down-jet configuration.

Casing Sizes: 4-1/2" – 22"

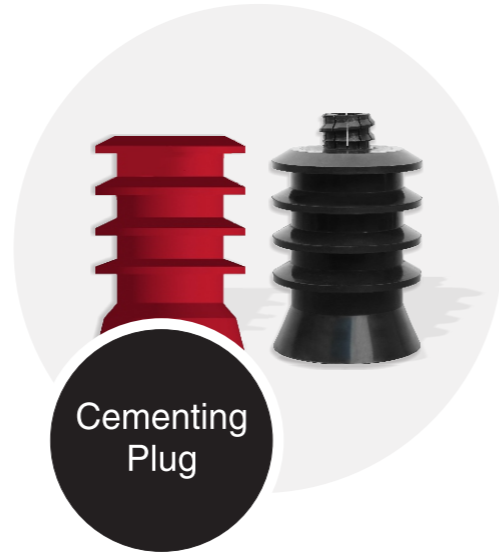


Guide Shoe

Pinnacle's cementing plugs are used during cementing operation to assist removal of drilling fluid and mud sheath from inner diameter of casing to minimize cement contamination.

Plugs are PDC drillable and oil resistant. Both Top and Bottom plugs are available in conventional (rotating) and non-conventional (non-rotating) design.

Casing Sizes: 4-1/2" – 22"



Cementing Plug



One Piece 'Gold' Centralizer

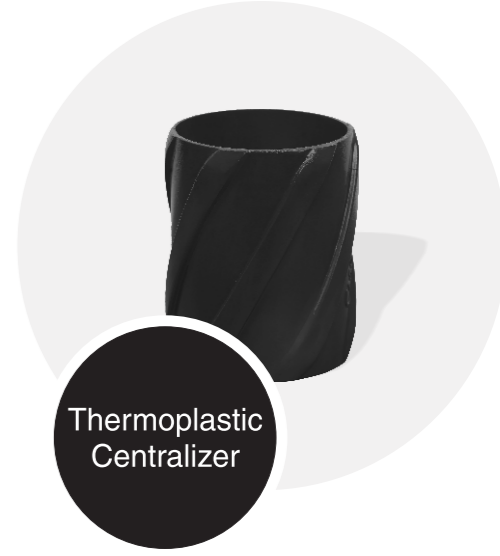
Pinnacle's one piece centralizer eliminates bow welding and provides superior Strength and reliability. Super centralizers are available in two configurations, traditional single Bow and double bows.

One piece construction provides ultra-high strength, minimal to zero starting and running forces, optimum standoff capability in most challenging well conditions. Low friction coefficient reduces torque losses and drag.

Sizes: 2-7/8" – 22"

Thermoplastic Centralizers are designed for use in highly deviated and horizontal wells. They also function as bearings during pipe rotation and reduce torque requirements. Vanes are specially designed to eliminate any kind of scratching or digging into the formation thus allowing the vanes to be cleaned for giving maximum swirling of the fluid between them. Centralizers are constructed from high strength polymer providing superior side and axial loading capacity with excellent abrasive resistance.

Sizes: 4-1/2" to 16"



Thermoplastic Centralizer



Conventional Bow Spring Centralizers

Pinnacle bow centralizers are designed to provide high restoring force exerted by bow spring while RIH and cementing operations.

Bow centralizers are available in two forms, welded and non-welded. The hinged design allows easy installation of centralizer onto casing over stop collar.

Available in tubing/casing sizes 2-7/8" – 36".

Stop Collars and Stop Rings are designed for high strength, excellent holding force and easy installation. They hold centralizer in its desired location and provide required standoff.

Holding force ranges from 10,000 lbf – 40,000 lbf. Stop collars are available in sizes from 2-7 8 to 36 .



Stop Collars