



## *Bypass Ball Seat (BPBS)*

Weatherford's bypass ball seat (BPBS) features an integral ball seat that is used for activating hydraulically set liner hangers and holddown subs and releasing hydraulically released running tools in applications where no cementation of the liner is required.

The BPBS features a ball seat sleeve. When the ball lands on this sleeve, pressure can be applied to hydraulically activate liner hanger and/or holddown subs and/or to hydraulically release running tools. After necessary hydraulic tasks (setting the hanger, releasing the running tools, and setting the holddown sub) are completed, the BPBS can be sheared out, moving the sleeve down and exposing the holes in the ball seat to allow circulation through the string.

### *Applications*

- Any uncemented liners that use a hydraulically set liner hanger and/or holddown sub and/or hydraulically released running tool
- Used in conjunction with the hydraulic packer setting tool (HPG) for setting liner-top packers

### *Features, Advantages and Benefits*

- Ball seat sleeve is ported to allow re-establishment of circulation through the BPBS if it is sheared out. With this feature, the liner string does not have to be pulled wet, as mud can drain through the BPBS and the bottom of the running string.
- The BPBS reduces shock applied to sensitive formations by allowing pressure to dissipate in the volume of the liner or volume of the inner string.
- The setting ball is retrieved with the running tools, eliminating introduction of additional debris to the well, which could hinder completion operations.

### *Specifications*

Contact an authorized Weatherford representative.

