

Ball with a Stabilizer

This idea is a ball with a stabilizer utilized to actuate downhole tools. For example the ball may be used to function a hydraulic sleeve. The stabilizer or tail on the ball will keep the ball orientated so the stronger aluminum ring makes contact with the seat instead of the softer and lower specific gravity plastic that makes up most of the ball. The combination of these two materials provides the strength needed to perform the high pressure task of opening a hydraulic sleeve and the subsequent isolation during the stimulation, while having a relatively small specific gravity. The low specific gravity allows the ball to flow back once the stimulation is complete. The low amount of aluminum provides a quick mill up if milling is used to remove the balls.

