



## Pumpout Sub

Innovex's Pumpout Sub allows isolation of the tubing string from the annulus and can be sheared out by increasing tubing pressure to establish communication below the packer.

## Fill Sub

Fill Subs allow the work string to automatically fill while running-in-hole, keeping the tools below hydraulically balanced to prevent damage or premature setting. With a Fill Sub, there is no need to fill a work string at intervals. Their simple one-piece configuration allows ease of installation and deployment. Custom sizes & materials available upon request.

## Hydraulic Disconnect

The Hydraulic Disconnect Assembly allows the tubing string to be disconnected from permanent or retrievable tools, which must be left in the well. These tools are typically used in highly deviated or horizontal wells where tubing rotation is very difficult. In addition, these tools are used for coiled tubing operations. Hydraulic pressure is applied to disconnect. No tubing rotation is required to operate the tool.

## Delayed Opening Valve

Run in conjunction with an Inflatable Production Packer (IPP), the Delayed Opening Valve runs on the chassis between the poppet valve and the element and allows for higher circulation pressures while RIH without the risk of inflating the IPP. Multiple IPPs can be set on the same string and inflated independently as required.



Fill Sub



Hydraulic  
Disconnect