TAM RR TOOL
Multiple Set Inflatable Packer/Bridge Plug System

- Ideal for single/multiple-leg testing for horizontal wells
- Fast evaluation or stimulation above or below packer
- Easily converted downhole from production packer to bridge plug and vice versa
- 4 1/4” thru 7” sizes available
- Right hand rotation and slack off only requirements to operate
General Description

The TAM RR (Resettable Ratchet) Tool is a multiple set inflatable packer that can easily be converted from a production packer to a bridge plug in order to evaluate zones both above and below the packer.

The RR Tool utilizes both a “Band Check” (patented check valve) and redundant seal design to assure reliability in maintaining the packer in the set condition.

The RR Tool is released by applying right hand rotation and reset by inflating and slacking off weight.

An internal bypass from above to below the packer element assures equalization across the packer while inflating. The bypass is closed when weight is slacked off.

Inflation Elements

TAM offers four types of inflatable elements to satisfy the wide range of application requirements in vertical, horizontal, cased or open hole.

For specific element data and application analysis, refer to the TAM Inflatable Packer Element Selection brochure.

Operating Procedure

Once the tool is run down to the desired depth (Figure 1), a ball is circulated to seat in the tool (Figure 2). Pressure applied to the work string is then diverted into the inflation chamber to inflate and “set” the packer.

Increasing pressure expels the ball and seat and opens through the tool for testing or stimulating below (Figure 3).

When operations below the packer are completed, a dart is pumped down to seat in the tool and a circulation port (TAMDUMP) opened above to test or stimulate above (Figure 4).

Once testing above is completed, closing the circulation port and expelling the dart allows right-hand rotation to be applied to deflate the packer. This allows for moving and resetting at a different depth for additional operations (Figure 5).

If an extraneous fluid source is defined while testing, you can finalize completion with a TAM inflatable tool such as the Single Set, Scab Liner, etc.

Accessories

Multiple accessories are available to enhance the varied operations of the RR Tool.

Refer to the TAM Thru-Tubing brochure for a complete list and description of RR Tool accessories.
Figure 2
Ball on Seat
Inflated

Figure 3
Ball and Seat Expelled
Testing Below

Figure 4
Dart on Seat
Open Circulation Port
Testing Above

Figure 5
Close Circulation Port
Dart Expelled
Move to New Depth