

2 BALL CIRCULATION SUB

Single Cycle Circulation/ Jetting Tool



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Description

Hamdeen's 2 ball-drop circulation sub is used in applications where the operator wishes to pump to annular ports and then have the option to reinstate flow to the bit. In the running position the annular ports are isolated and the flow path is to the drill bit only. Once the first ball has landed, pressure is applied, a shear ring is activated and a piston shifts opening flow to the annular ports. Once the displacement is complete the second ball can be dropped reinstating flow to the bit and isolating flow to the annular ports.

Features

- Ball-to-open, ball-to-shut activation for operational flexibility
- Large increase in flow area for improved hole cleaning or jetting
- Robust design with no external fittings for operational reliability
- Standard connections for ease of handling

Benefits

- Saves rig time by avoiding trips to change the BHA
- Improved hole cleaning and pipe drainage
- Annular ports can be closed for well control purposes
- Complements other Hamdeen wellbore cleaning tools

Typical Specification

- Max Body OD: 6-3/4"
- Overall length: 28" (2'-4")
- Connections: 4-1/2" IF Box x 4-1/2" IF Pin
- Through bore 1-1/2"
- Drop Ball Diameters: 1-5/8" and 1-7/8"
- Ball sizes can be customised to customers' requirements

