

## REVERSE CIRCULATION CHECK VALVE



### TOOL APPLICATIONS

The reverse circulating Flapper Valve (RC-DFCV) is designed for reverse circulating operations in order to protect the Coiled Tubing (CT) String from invasion of wellbore fluids.

The tool is configured so that the flapper valves are held open during normal operations thus allowing circulation from the annulus into the CT String.

In the event of an emergency - or as part of a planned operation - a drop ball can be launched to shift a piston that activates the flapper valves to provide a double barrier.

The check valves are cartridge type which allows for fast and efficient redress with simple removal and replacement of the flapper cartridge assembly.

This tool is ideal for operations where reverse circulation is required due to annular velocity restrictions caused by low Bottom Hole Pressures (BHP).

### FEATURES AND BENEFITS

- Maintains flow path following activation to allow BHA components below to be operated
- Corrosion resistant materials
- Connection options to suit customer requirements
- Simple, robust design ensuring ease of operation for the end user
- Hexagonal flats for safe make-up & break-out

### SPECIFICATIONS

Technical Variable		Units	Size		
			2 1/8"	2 3/8"	2 7/8"
Max OD		in	2.125	2.375	2.875
Min ID		in	0.563	0.625	0.875
Connection	Top	Box	1 1/2" AMMT	1 1/2" AMMT	2 3/8" PAC DSI
	Bottom	Pin	1 1/2" AMMT	1 1/2" AMMT	2 3/8" PAC DSI
Make Up Length		in	28.13	28.12	32.50
Circulating Drop Ball		in	0.625	0.688	1.000
Working Pressure		psi	5,000	5,000	10,000
Strength	SWL	lbs	59,500	72,900	118,800
	Yield	lbs	66,120	81,000	132,000
	UTS	lbs	82,650	101,250	165,487
	Torsional	ft.lbs	920	1,128	2,442
Make Up Torque		ft.lbs	900	900	2,167