

DOUBLE FLAPPER CHECK VALVE (DFCV)



TOOL APPLICATIONS

The Double Flapper Check Valves provide the primary internal well control barrier within the Coiled Tubing (CT) Bottom Hole Assembly (BHA) during "live" well intervention operations.

The Check Valves prevent the Wellbore Fluid and pressure from entering the CT string while allowing for unrestricted flow through the tool string.

The flapper valves are spring-loaded in the normally closed position but will open fully during circulation to provide a large internal through-bore passage for drop-balls.

The two flapper cartridges are easily removable for quick and easy inspection and redress.

A high-performance elastomeric seal is used within each flapper cartridge for improved sealing performance and reliability. The dual flapper design provides full redundancy for increased safety.

FEATURES AND BENEFITS

- Full flow-through bore
- Dual sealing in each flapper cartridge (low-pressure seat/seal and high-pressure full metal-to-metal seat/seal)
- Full-bore fluid passage for balls, darts, and plugs
- Removable flapper cartridges

SPECIFICATIONS

Technical Variable		Units	Size			
			1 3/4"	2 1/8"	2 7/8"	3 1/8"
Max OD		in	1.75	2.125	2.875	3.125
Min ID		in	0.656	0.812	1.312	1.312
Connection	Top	Box	1"AMMT	1-1/2"AMMT	2 3/8" PAC DSI	
	Bottom	Pin	1"AMMT	1-1/2"AMMT	2 3/8" PAC DSI	
Maximum Ball Size		In	0.625	0.750	1.125	1.125
Make Up Length		in	10.22	13.20	16.30	16.38
Working Pressure		Psi	5,000	5,000	10,000	10,000
Strength	Yield	lbs	44,020	67,717	94,000	140,000
	UTS	lbs	55,028	84,647	108,000	160,000
Make Up Torque		ft.lbs	500	900	3,250	3,250