

## MOTOR HEAD ASSEMBLY



## TOOL APPLICATIONS

The Motor Head Assembly (MHA) combines three essential Coiled Tubing (CT) Bottom Hole Assembly (BHA) components into one compact tool. Double-Flapper Check Valves, HD Hydraulic Disconnect and Dual-Acting Circulating Sub. It has a reduced overall length compared to the individual tools, makes it suitable when rig-up height is restricted.

The **Double-Flapper Check Valves** provide the primary well control barrier within the CT BHA. The double barrier, on prevents the inflow of wellbore fluids to the CT while still allowing high circulating rates to be achieved.

The **HD Hydraulic Disconnect** is a drop-ball release mechanism that allows a stuck CT to be disconnected, leaving a standard internal "GS" profile for subsequent fishing operations.

The **Dual-Acting Circulating Sub** is opened either by a drop-ball or rupture disc, which can be activated to regain circulation if the lower section BHA has been plugged off.

## FEATURES AND BENEFITS

- Superior torque rating
- High tensile and compressive strength rating
- Hexagonal flats for safe make-up & break-out
- Connection options to suit customer requirements

## SPECIFICATIONS

Technical Variable		Units	Size		
			1 11/16"	2 1/8"	2 7/8"
	Max OD	in	1.687	2.125	2.875
	Min ID	in	0.437	0.562	0.938
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
	Make Up Length	in	26.18	29.34	36.32
Disconnect	Ball Size	in	0.625	0.750	1.125
	# of Screw	ea	4	4	6
	Screw Size	in	0.201	0.252	0.302
	psi/ screw	psi	1,364	1,409	1,283
Circ Sub Drop Ball	Ball Size	in	0.500	0.625	1.000
	# of Screw	ea	4	4	6
	Screw Size	in	0.101	0.151	0.201
	psi/ screw	psi	630	733	564
	Fishing Profile	internal	1 1/2" GS	2" GS	3" GS
	Working Pressure	psi	10,000	10,000	10,000
Strength	SWL	lbs	35,910	54,050	102,900
	Yield	lbs	39,900	60,060	114,350
	UTS	lbs	51,300	77,220	147,020
	Torsional	ft.lbs	470	970	2,500
	Make Up Torque	ft.lbs	500	900	3,250

\*Ball seats size can be changed as required