

HEAVY DUTY BALL RELEASE DISCONNECT



TOOL APPLICATIONS

The Heavy Duty (HD) Ball Release Disconnect is designed to provide a defined and controlled parting point in a Bottom Hole Assembly (BHA).

To activate the HD Disconnect, a ball is pumped to seat on the inner piston. Controlled pressure is then applied to overcome the predetermined shear pin rating allowing the tool to part – leaving the lower section downhole with an internal GS fishing profile for subsequent retrieval operations, if required.

The HD Disconnect offers higher resistance to impact and torque loading and is suitable for heavy duty applications including below jars in a tool string, milling and under reaming BHA's.

FEATURES AND BENEFITS

- High torque rating
- Drop ball operated
- Standard rupture disc port
- Interchangeable ball seat allows different size Drop Balls to be used
- Disconnect Sub fitted with standard GS type internal fish neck profile
- Hexagonal flats for safe make-up & break-out
- Corrosion resistant materials

SPECIFICATIONS

Technical Variable		Units	Size		
			1 1/16"	2 1/8"	2 7/8"
Max OD		in	1.687	2.125	2.875
Min ID		in	0.312	0.375	0.630
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	18.45	19.95	24.06
Weight		lbs	10.93	18.84	38.32
Disconnect Ball Size*		in	0.375	0.437	0.750
# of Shear Screws		ea	4	4	6
Shear Screw Size		in	0.201	0.252	0.302
psi/ screw		psi	1,364	1,403	1,313
Rupture Disc Range		psi	0 – 10,000		
Nominal Fishing Profile		internal	1 1/2" GS	2" GS	3" GS
		External	Slick OD		
Working Pressure		psi	10,000	10,000	10,000
Strength	SWL	lbs	52,820	118,465	216,155
	Yield	lbs	58,690	131,625	240,175
	UTS	lbs	63,200	141,750	258,650
	Torsional	ft.lbs	670	1,809	3,500
Make Up Torque		ft.lbs	542	1,029	3,250

*Disconnect ball seat size can be changed as required