

RYPSUB-XB Circulation Sub

The Ryptx RYPSUB-xB is a simple and rugged conventional ball drop circulation sub configured as a single collar system with no mid-body connection. It is simple to use, with variable cycle capability. It uses a novel design ball disposal system that allows balls to be emptied without disassembly, allowing field service and multiple run usage.



APPLICATIONS:

- Wellbore cleanout
- Managed Pressure Drilling
- Underbalanced Drilling
- Cementing operations
- Workover and completions
- Stuck pipe mitigation operations

FEATURES:

- Single collar design
- No mid body connections
- Variable cycle capability
- Standard API connections
- Rugged, proven ball drop activation
- High strength material options for Deep Gas
- Customizable housing for increased cycles
- R&M options for staged repairs

Column1	XB 500	XB 675	XB 825
Max Tool OD (in)	<mark>5.0"</mark>	6-3/4"	8-1/4"
Top Connection	NC 38 BOX	NC 50 BOX	6-5/8" REG BOX
MUT Top Connection (ft.lb)	11,500	35,000	46,000
Bottom Connection	NC 38 PIN	NC 50 PIN	6-5/8" REG PIN
MUT Bottom Connection (ft.lb)	11,500	35,000	46,000
No. of Ports	2	2	2
Port Diameter (in)	1.10	1.35	1.35
Activation Ball Size (in)	1.50	2.00	2.50
De-Activation Ball Size (in)	1.38	1.38	1.38
No. of balls to activate	1	1	1
No. of balls to deactivate	2	2	2
Max Cycles (standard housing)*	3	3	3
TFA Through Tool (sq.in)	1.60	2.80	4.50
TFA Open Ports (sq.in)	1.90	2.80	2.80
Max Flow Rate, closed (gpm)	500	650	900
Min Bypass Flow Rate (gpm)	250	350	450
Max Bypass Flow Rate (gpm)	550	600	1000
Tool Weight (lb)	200	430	640
Tool Length (ft)	3.5	4.5	5.0
Survivable Overpull (lb)	475,000	950,000	1,600,000
Survivable Torque (ft.lb)	19,000	58,000	76,000

CONTACT TO DISCUSS:

Operating temperature range for the desired application Chemical compatibility with specialist drilling fluids Compatibility and operation with third party downhole tools Installation, handling, and operating guidelines Increased cycle requirements

HIGH TEMP or HIGH PRESSURE application? Contact Ryptx about the RYPSUB-xH

FAST DART needed? Contact Ryptx about the RYPSUB-xF