

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.



| PLICATIONS: | | XB 500 | XB 675 | XB 825 |
|----------------------------------|--------------------------------|-----------|-----------|----------------|
| | Max Tool OD (in) | 5.0" | 6-3/4" | 8-1/4" |
| Wellbore cleanout | Top Connection | NC 38 BOX | NC 50 BOX | 6-5/8" REG BOX |
| Managed Pressure Drilling | MUT Top Connection (ft.lb) | 11,500 | 35,000 | 46,000 |
| | Bottom Connection | NC 38 PIN | NC 50 PIN | 6-5/8" REG PIN |
| Underbalanced Drilling | MUT Bottom Connection (ft.lb) | 11,500 | 35,000 | 46,000 |
| Cementing operations | No. of Ports | 2 | 2 | 2 |
| | Port Diameter (in) | 1.10 | 1.35 | 1.35 |
| Workover and completions | Activation Ball Size (in) | 1.50 | 2.00 | 2.50 |
| Stuck pipe mitigation operations | De-Activation Ball Size (in) | 1.13 | 1.13 | 1.38 |
| | No. of balls to activate | 1 | 1 | 1 |
| | No. of balls to deactivate | 2 | 2 | 2 |
| ATURES: | Max Cycles (standard housing)* | 3 | 3 | 3 |
| | TFA Through Tool (sq.in) | 1.60 | 2.80 | 4.50 |
| Single collar design | TFA Open Ports (sq.in) | 1.90 | 2.80 | 2.80 |
| | Tool Weight (lb) | 200 | 430 | 640 |
| No mid body connections | Tool Length (ft) | 3.5 | 4.5 | 5.0 |
| Variable cycle capability | Survivable Overpull (lb) | 475,000 | 950,000 | 1,600,000 |
| | Survivable Torque (ft.lb) | 19,000 | 58,000 | 76,000 |

• Standard API connections

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- Rugged, proven ball drop activation
- High strength material options for Deep Gas
- Customizable housing for increased cycles
- R&M options for staged repairs

* Increased cycles possible with increased length housing collar and ball catcher.

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