



Lite Torc technology Kelly **Safety** valve

“LITE TORC TECHNOLOGY” KELLY SAFETY VALVE

Lite-torc, a significant patented innovation, does much to alleviate two problems which have plagued kelly and safety valve users for as long as there have been kelly and safety valves. Lite-torc lessens required torque to close valves that are under significant flow or to open and close valves that are under high pressure which is balanced or nearly balanced.



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M&M Patent

Tests at Louisiana State University's Petroleum Engineering Research and Technology Transfer Laboratory indicate that utilization of Lite-torc System, the one MAKO RENTALS utilizes, drastically improves the ability of a valve so fitted to be closed under heavy flow at torque values manageable by one man with a standard 12" valve wrench.

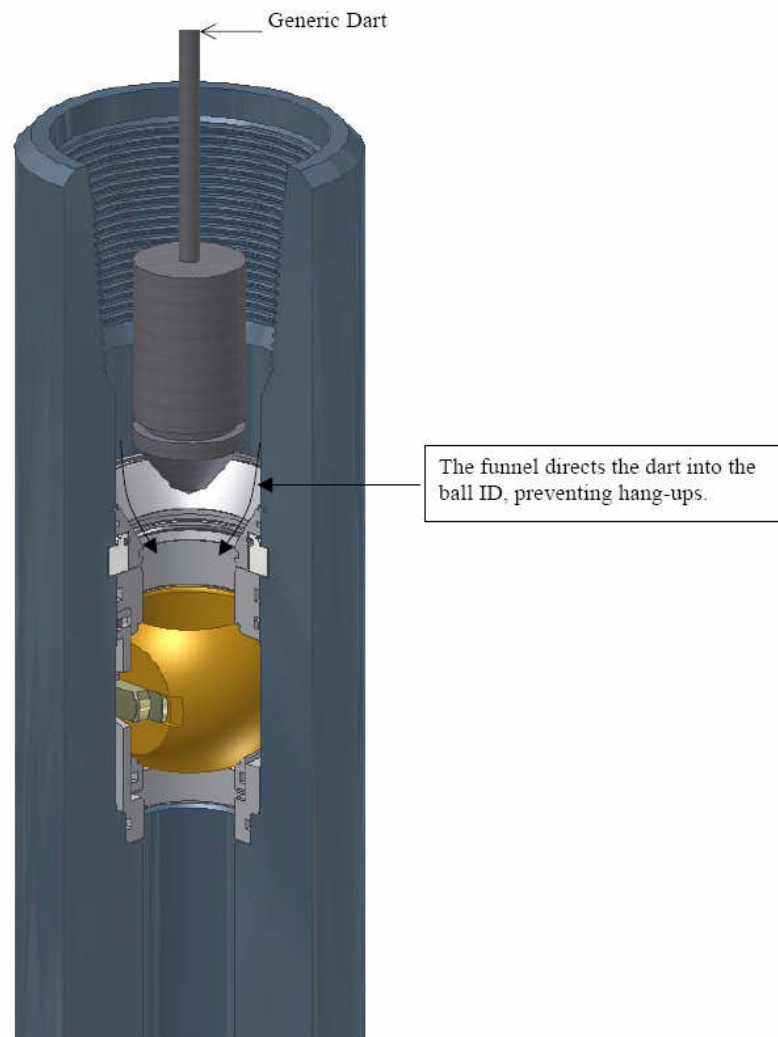


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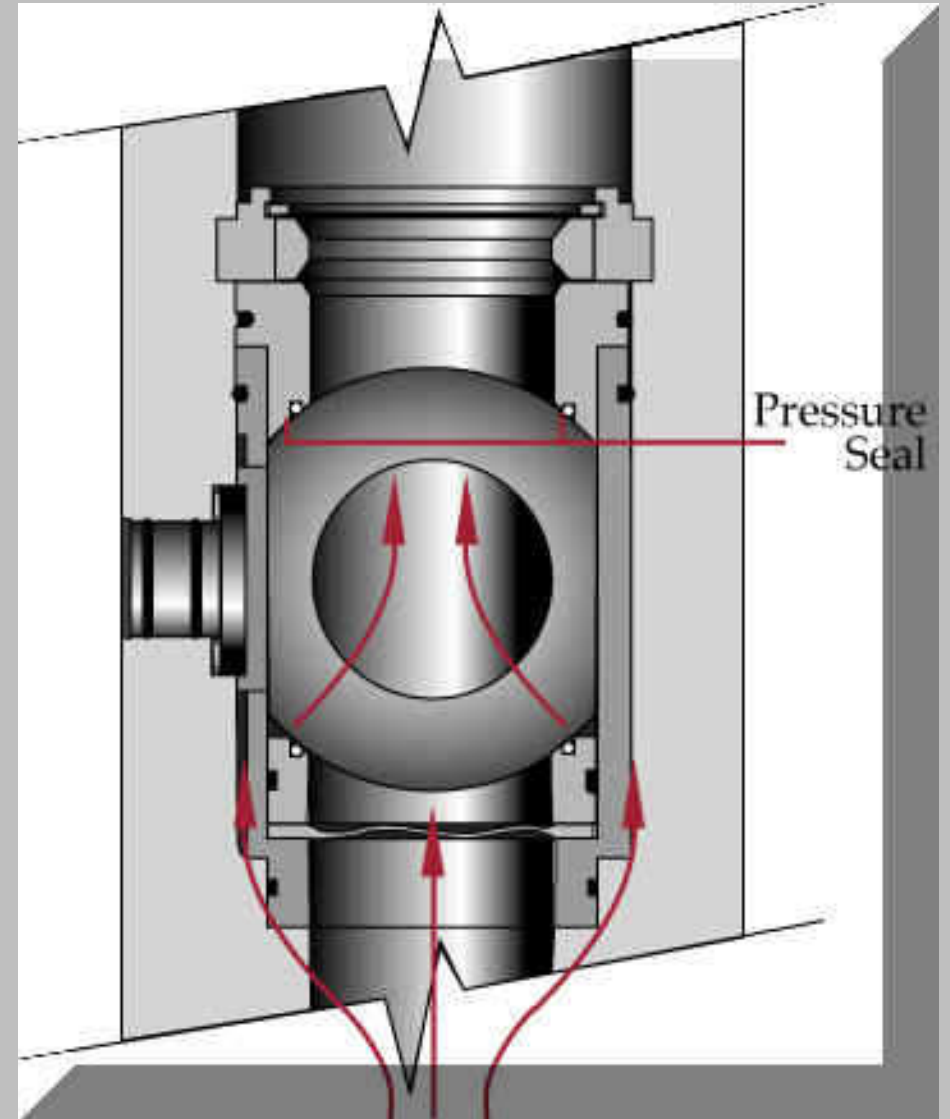
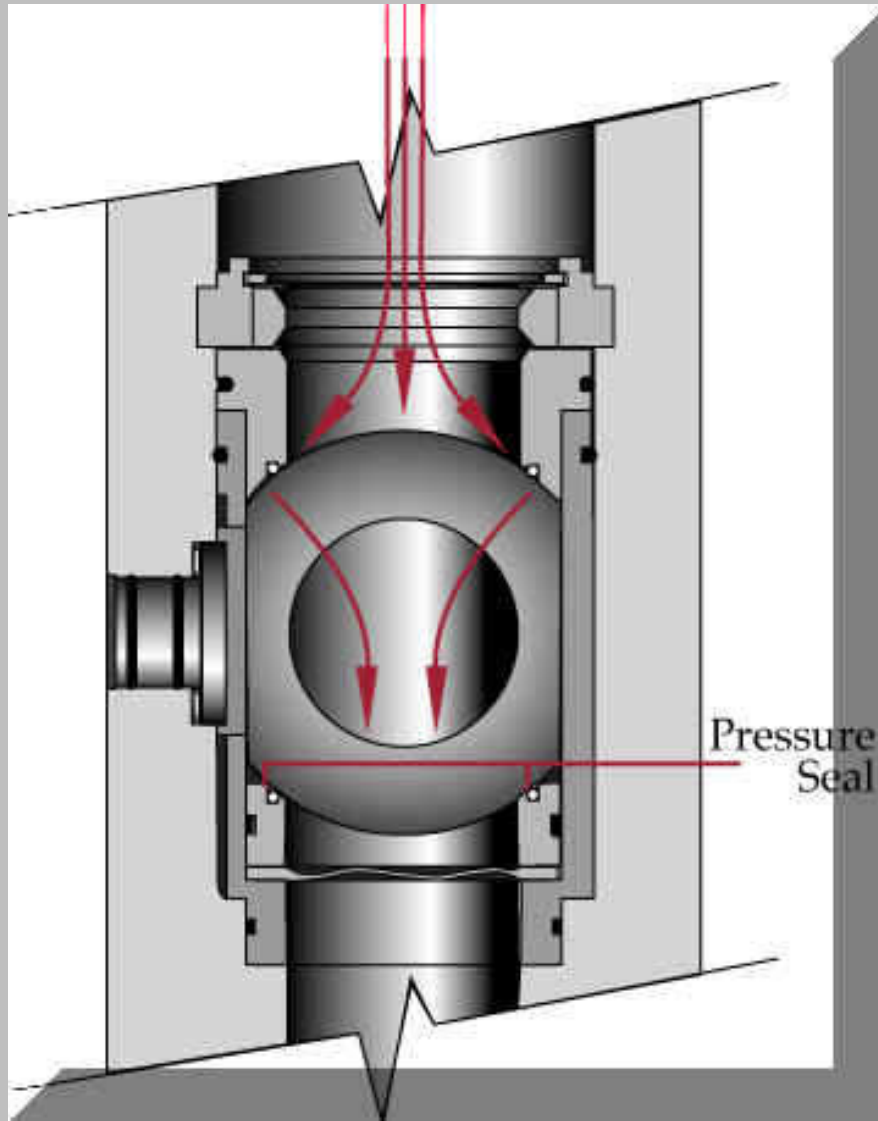
M&M Patent

Further, once closed, well bore pressure can slowly be balanced by pump pressure to allow the valve to be re-opened and re-closed with less than 30 ft lbs. of torque. This innovation has enormous potential to save lives, property and money. Lite-torc is patented and currently standard on all of M & M's Canister Guard family of products which is used by MAKO RENTALS. The valve has a unique funnel shape in the ID that makes it a better alternative for dropping darts so that the dart heads are not torn, broke or lodged in the valve as the case with conventional safety valves.

One Piece Kelly Valve with Funnel Guide



Lite Torc technology ball valve



The Canister Guard™ Series of valves are unique. Their patented modular construction, reliability and fail-safe assembly features make them incomparable industry products. No special tools are required for easy field or shop disassembly or reassembly. Main sealing and spring tension components are located in the canister which is pre-tested to assure accuracy and reliability.

•Key Features:

Easy disassembly, redress and reassembly. **Check-seal™** one seat sealing which substantially reduces ball stress and differential pressure open/close friction.

With the addition of **Lite-torc™**, drastically reduced open and close torque in high pressure balanced situations.

Significantly improved stem **Sure-stop™** mechanism which is completely replaceable with a new canister and does not reduce body strength.



One and two piece kelly and stabbing valves all incorporate the advanced features including Canister Guard™ modular technology,

Lite-torc™, Sure-stop™ and Check-seal™.





WE APPRECIATE YOUR TIME



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