

# M&M International



MADE IN USA



M&M International (M&M) is an Original Equipment Manufacturer (OEM) of well control valves and inside blowout preventers (IBOPs), as well as subs, swivels and other oilfield equipment.

M&M incorporated their patented Canister Guard™ technology into the valve design, which makes M&M products the most reliable valves in the business. M&M began manufacturing drill string, well control valves and IBOPs in 1980. Over the years they have developed a wide variety of valves, IBOPs and other related products. M&M also has mechanical engineers on staff, committed to solving the most common, and uncommon, problems associated with other aspects of the petroleum industry.

M&M has built a reputation on valves that contain the reliable and patented Canister Guard™. As an oilfield product, the Canister Guard™ is unique. Its modular construction, reliability and fail-safe assembly features make it an incomparable industry product. No special tool or equipment is required for easy field or shop disassembly and reassembly. Main sealing components are self-contained and pretested to assure accuracy and complete integrity.

Another M&M innovation involves solving two of the most important deficiencies of all other known Kelly Valves.

1. Improved ability to close under significant flow. 2. Easily operated under high balanced pressure conditions. The use of M&M's Lite-Torc™ offers the ability to close the Canister

Guard™ valve while under significant flow and allows the valve to be easily opened or closed under high-balanced pressure (approximately equal pressure both above and below the ball). Tests performed at Louisiana State University's Petroleum Engineering Research and Technology Transfer Laboratory indicated that utilization of M&M International's Lite-Torc™ system drastically improves the ability of a valve to be closed under heavy flow, enabling the closing of the Canister Guard™ valve by one man with a standard 12" valve wrench. This innovation has enormous potential to save lives, property and money for a modest additional cost.

M&M's products are manufactured in the USA and the majority of parts are manufactured in-house with the use of CNC machines. M&M takes great pride in the ability of their experienced members to maintain the tight tolerances required by their engineered products. As well, all parts are critically inspected with strict guidelines enforced by the quality department. M&M adheres to exacting procedures and products are manufactured to precise standards with each being thoroughly inspected to ensure high quality is maintained. Quality is paramount and M&M has been API licensed since 1992. Their quality management system is well established and continually monitored for potential improvement. M&M holds a current API Specification 7-1 license as well as API-QR (API Q-1 and ISO 9000:2008) certification for its quality management system.





## **One-Piece and Two-Piece Canister Guard™ Kelly Valves**

Our one-piece Canister Guard™ Kelly valves are extremely versatile and can be utilized in multiple drill stem applications including use as upper/lower Kelly cocks, upper/lower top drive valves, stabbing valves, or as mudsaver valves.

One-piece Canister Guard™ Kelly valves are available with inside ball diameters ranging from 1.75" through 4.00" and in many outside diameter and length combinations.



## **Two-Piece Canister Guard Safety Valves**

M&M International designs and manufactures our two-piece Canister Guard™ safety valves, with tubing, casing or drill pipe connections with inside ball diameters ranging from 1.75" to 8.75" and in many outside diameter and length combinations.

Two-piece safety valves generally consist of a larger middle body that tapers down to a smaller OD at each end nearer the connections.



## **One-Piece and Two-Piece Inside Blow-Out Preventers**

M&M's one-piece IBOP offers all of the same functionality of a two-piece design but offers several key benefits.

A one-piece design allows the IBOP to be shorter, creates a possibility for smaller outside diameters and eliminating the service break allows for quicker disassembly because there are no torquing issues or torquing requirements because there is no service break.

One-piece IBOP's require less manufacturing time and therefore a faster delivery is possible.

Upon request, two-piece IBOPs can be designed and manufactured to meet any industry standard as applicable.



## **Top Drive Canister Guard Valves**

M&M manufactures a variety of top drive valves that are compatible with various different top drives. These top drive valves typically include all of the Canister Guard™ technologies.

Top drive Canister Guard™ valves are available with inside diameters ranging from 1.75" to 4.00".



## **Integral Single and Double Side-Entry Subs**

M&M stocks the large rough forgings we use to make our single and dual side-entry subs. Forgings create a stronger product than normal hot-rolled bar. Making side-entry subs from forgings results in shorter lead times because it allows manufacturing to begin when the material is closer to its finished size while removing the need for post heat treating.

Our integral double side-entry sub does not have a through bore that runs from the box connection to the pin connection; this isolates the two connections allowing for testing in either direction independent of the other.

Our integral side-entry subs are preferred over welded non-integral side-entry subs due to their quality and strength. With ample room for recuts and your choice of hammer union, these subs are good for years of service. Custom options are possible with these products.



## **Pump-In, Crossover and Saver Subs**

M&M offers pump-in subs made to order with your choice of hammer union.

M&M stocks several common saver and crossover subs but we also make saver and crossover subs to suit our customers' requirements and specifications.