

## Davis-Lynch Casing Equipment

Help with **Stage Collars**:

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[STAGE COLLARS](#)[FLOAT EQUIPMENT](#)[CEMENT PLUGS](#)[CASING PACKERS](#)[EXTENDED REACH EQUIPMENT](#)[CENTRALIZERS & ACCESSORIES](#)

### Stage Collars

[Composite - Type 778MC](#)[Mechanical - Type 778MC](#)[Hydraulic - Type 777HY](#)[Packer Stage Collar](#)

#### Hydraulic - Type 777HY

This stage collar features an opening sleeve with area differences on opposite ends that allows it to be manipulated hydraulically. The closing sleeve is identical to the one contained in the Type 778 MC Mechanical Stage Cementing Collar. The development and introduction of this model was spurred on by the tremendous upswing in horizontal drilling activity that has occurred in recent years. The hydraulic opening feature makes this tool's use very practical in horizontal wells.

The elimination of the need to use a mechanical opening device has several other merits. Casing runs in highly deviated wells can now be two-stage cemented without having to use continuous displacement type plugs. In certain applications, liners run with drill pipe can be run in conjunction with one or several inflatable packers and used to isolate and selectively cement certain casing intervals. Slotted or pre-drilled liner can be run below a Forum inflatable packer/hydraulic stage collar assembly, allowing cement to be pumped above the packer and isolated from highly sensitive producing zones.

Along with all the features inherent in the 778 MC Stage Cementing Collar, the Type 777 HY offers:

- Effective differential area on the opening sleeve that generates a high opening force while requiring only optimal pressure to do so.
- The ability to open immediately upon the completion of first-stage cement displacement.
- Opening pressure values that can be adjusted at the time of assembly to assure that all inflatable packers or other hydraulic tools present in the casing string will be triggered at the correct juncture.



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