

## Advance-MZ™ System

**Effective single-trip multizone system, with increased overall length, that provides close-spacing and zonal control capabilities**

Halliburton has a long, successful history with single-trip multizone sand control systems. This started with the introduction of the STMZ™ system in 1993 and the subsequent introduction of the Enhanced Single-Trip Multizone (ESTMZ™) system in 2010. These two systems have successfully completed hundreds of wells and treated thousands of zones worldwide.

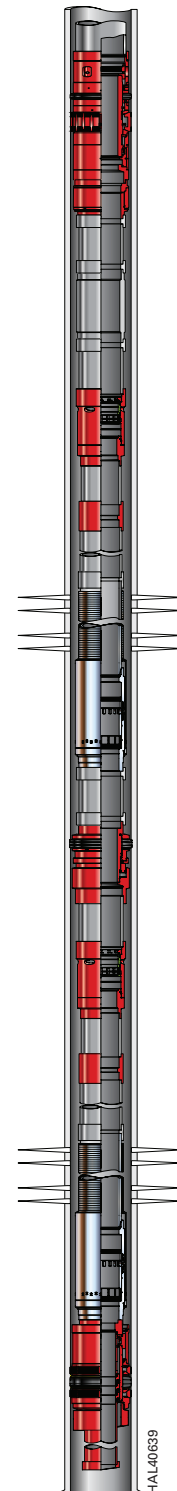
The Advance-MZ™ system is our new multizone sand control system that carries on this legacy by offering an intermediate pressure rated system that provides zonal isolation for short intervals. An engineered length of screen is provided for each zone, along with frac pack rated service tools, which enable many treatment design options including annular gravel packs, high-rate water packs, extension packs, and frac packs.

Advance-MZ system combines select capabilities of the original STMZ and ESTMZ systems; giving operators the ability to access additional zones in land, mature, offshore, and deepwater fields that may have been deemed too marginal to complete in the past. The system provides an effective single-trip multizone sand control solution while providing short space-out capability, fluid loss control, and selective isolation. The Advance-MZ system's design incorporates many of the benefits of the ESTMZ system's service tools to provide low friction pressure losses while reversing out. This allows for a long overall system to provide treatment of a high number of zones with a single system.

The unique single-joint, engineered length, version of Sliding Side-Door® (SSD) screen positions a circulation and production, non-elastomer, DuraSleeve® sliding sleeve at the bottom of each zone, connected to the un-perforated basepipe.

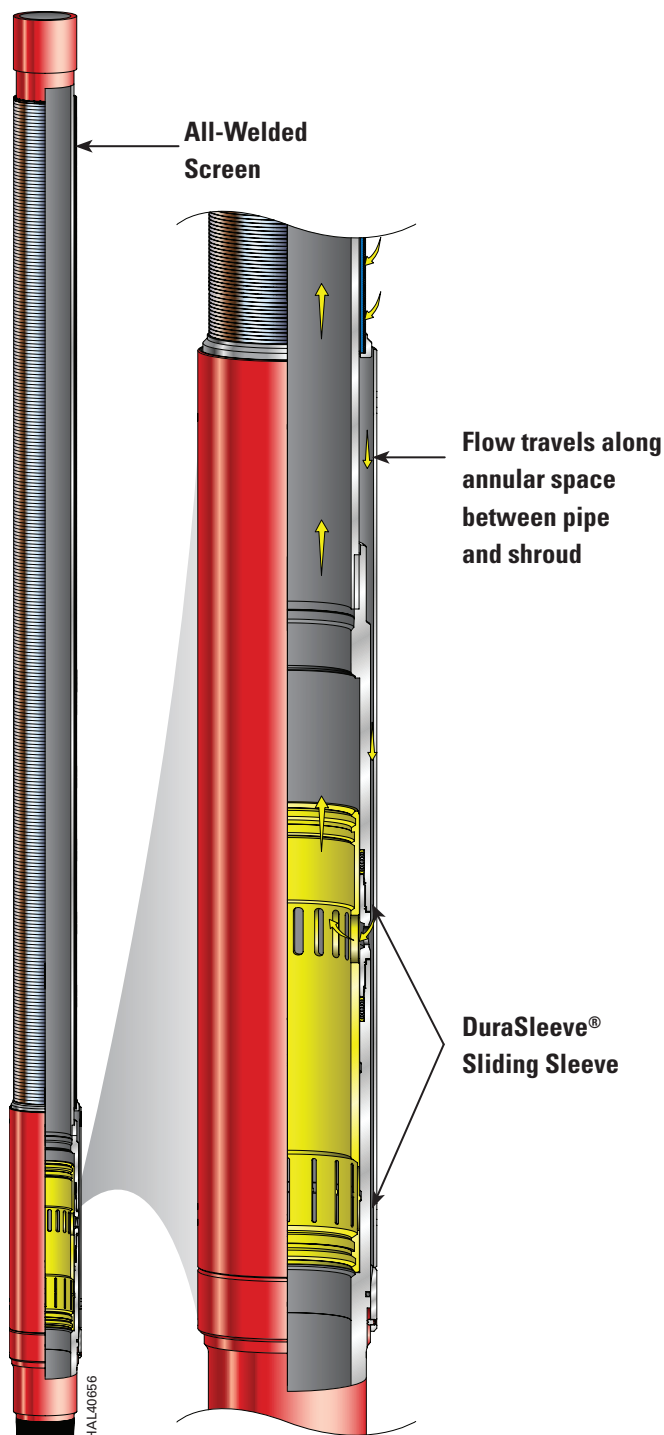
### Operation

After assembling and testing at the rig floor, the system is run into the well. The uppermost Versa-Trieve® packer is set first and then the isolation packers are set, one at a time, as each zone is prepared for treatment. The SSD circulation sleeve and the MCS closing sleeve are opened to perform the treatment. The zones are treated, one at a time from the bottom to top. After each zone is treated, that zone's sleeves are closed and tested to move to the next one. After treating and closing the last zone, the system is pressure tested, the service string is recovered and the upper completion is installed.



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## Advance-MZ™ Sliding Side-Door® Screen Flow Pathway



### Advance-MZ™ System Specifications

<b>Casing Size and Weight</b>	9 5/8-in. 47 – 53.3 ppf
<b>Upper VCH Packer Bore</b>	6.00-in.
<b>System Bore Size</b>	4.75-in.
<b>Differential Pressure Rating</b>	6,000 psi
<b>Screen Basepipe</b>	5 1/2-in. 17 ppf
<b>Screen Jacket OD</b>	6.01-in.
<b>Maximum Treatment Rate</b>	20 barrels per minute
<b>Maximum Total Proppant Mass at Rate</b>	500,000 pounds of 16/30 CarboLite® proppant
<b>Maximum Proppant Mass at Rate per Zone</b>	100,000 pounds of 16/30 CarboLite proppant
<b>Minimum Distance Between Zones</b>	37.7 ft (11.5 meters)*
<b>ShurMAC® Weight-Down Locator</b>	Yes, 4.75-in.
<b>Maximum System Length</b>	7,000 ft (2,133 meters)
<b>Isolation Packers Between Zones</b>	Slipless Hydraulic Set

\* Allows for minimal screen overlap across the perforations  
CarboLite is a trademark of CARBO Ceramics Inc.

**For more information on the Advance-MZ™ System,  
please call your local Halliburton representative or email us at [sandcontrol@halliburton.com](mailto:sandcontrol@halliburton.com).**

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Completion Tools