

## MC Series Feed-Through Packer

Remotely Isolate Zones in Marginal or Mature Assets

Halliburton WellDynamics' MC packers, designed for both production (MC-1) and isolation (MC-0) applications (no slips), are single-string, cased-hole, retrievable packers primarily designed for use in SmartWell® completions in marginal or mature assets.

Both MC production packers and MC isolation packers have the facility to feed through up to eight hydraulic or electrical control lines, allowing communication with other SmartWell equipment without compromising the integrity of the isolated zones. In some instances, the MC production packer has been used as an isolation packer below the primary HF-1 production packer.

### Benefits

- Apply SmartWell technology in marginal or mature assets
- Maintain zonal integrity
- Perform high pressure/tubing pressure testing

### Features

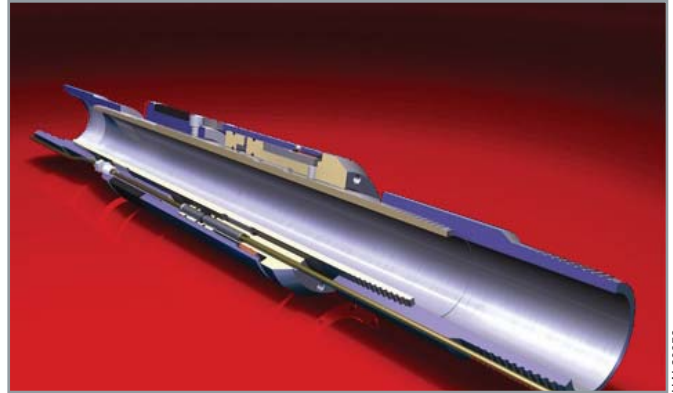
- Simple, cost-effective design
- Feed-through for up to eight control lines
- Tubing set
- Nitrile and HNBR packing element

### Setting Mechanism

Both MC production packers and MC isolation packers are tubing pressure set. Incorporating a hydraulically activated interlock system, the MC packers can be adjusted externally prior to running in the hole. The interlock system allows the packers to be run in highly deviated wells, eliminating the risk of presetting due to casing.

### Release Mechanism

The MC production packer is released by the “shift and pull” method. Once the primary packer is released, the MC isolation packer can be retrieved simply by pulling it straight out of the well.



HF-1 Packer Assembly

### Packing Element

The MC packer is fitted with a state-of-the-art nitrile and HNBR packing element similar to those used in WellDynamics' high performance HF-1 packer. This element offers robustness and excellent sealing properties.

### Nominal Conditions

The MC production packer and MC isolation packer are designed for use in wells with the following normal conditions:

- BHP < 5,000 psi
- Negligible H<sub>2</sub>S and CO<sub>2</sub>
- BHT < 275°F
- ΔP 5,000 psi

### Reliability

Both the MC production packer and the MC isolation packer have been qualified to an ISO 14310 V3 rating.

| Retrievable Feed-Through MC Packers |                        |                     |                  |                |             |                      |   |                      |                        |                               |              |                  |
|-------------------------------------|------------------------|---------------------|------------------|----------------|-------------|----------------------|---|----------------------|------------------------|-------------------------------|--------------|------------------|
| Type                                | Casing OD in.          | Casing weight ft/lb | Mandrel Size in. | Maximum OD in. | Bore ID in. | Maximum Feed-Through | Maximum Differential Across Element psi | Working Pressure psi | Working Temperature °F | Required Setting Pressure psi | Element Type | ISO 14310 Rating |
| 722MC Production Packer             | 7                      | 23                  | 3 1/2            | 6.180          | 2.817       | 8                    | 5,000                                   | 5,000                | 75 - 275               | 4,000                         | HNBR         | V3               |
|                                     |                        | 26-29               | 3 1/2            | 5.992          | 2.817       |                      |   |                      |                        | 2,400                         | Nitrile      |                  |
|                                     | 9 5/8                  | 40                  | 5 1/2            | 8.614          | 4.580       | 8                    | 3,500                                   | 3,500                | 75 - 275               | 3,500                         | HNBR         | V3               |
|                                     |                        | 47                  | 3 1/2            | 8.440          | 2.750       |                      |   |                      |                        | 5,000                         | 5,000        | 4,000            |
|                                     |                        |                     | 4 1/2            | 8.460          | 3.810       |                      | 3,500                                   | HNBR                 |                        |                               |              |                  |
|                                     |                        | 5 1/2*              | 8.455            | 4.590          | 4,000       |                      | HNBR                                    |                      |                        |                               |              |                  |
|                                     |                        | 53.5*               | 3 1/2            | 8.297          | 2.825       |                      | 5,000                                   | 5,000                |                        | 4,000                         | Nitrile      | V3               |
|                                     |                        |                     | 4 1/2            |                | 3.820       |                      |   |                      |                        |                               |              |                  |
|                                     | 5 1/2                  |                     | 4.590            |                |             |                      |   |                      |                        |                               |              |                  |
|                                     | 722MC Isolation Packer | 5 1/2               | 13-17            | 2 7/8          | 4.700       | 2.373                | 8                                       | 2,500                | 5,000                  | 75 - 275                      | 2,400        | Nitrile          |
| 7                                   |                        | 26-29               | 3 1/2            | 5.980          | 2.885       | 8                    | 2,500                                   | 5,000                | 75 - 275               | 2,400                         | Nitrile      | V3               |

**Notes:**

Packer is set only via the tubing.  
 Packer is released via straight shift and pull method  
 Metallurgy options: 4140 or 13Cr  
 Thread connections: Vam Top  
 Refer to individual specification sheets for additional details.  
 \*Pending qualification testing  
 Contact Halliburton for additional information.

**For more information on any of the details featured here, please email us at [welldynamics@halliburton.com](mailto:welldynamics@halliburton.com).**

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