

MC Feed-Through Packers

REMOTELY ISOLATE ZONES IN MARGINAL OR MATURE ASSETS

OVERVIEW

Halliburton 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.

FEATURES

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

BENEFITS

- » Apply SmartWell technology in marginal or mature assets
- » Maintain zonal integrity
- » Perform high pressure/tubing pressure testing
- » Achieve communication with laser tools

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 caused by casing.

RETRIEVAL MECHANISM

The MC-1 production packer is released by the “shift and pull” method. Once the primary packer is released, the MC-0 isolation packer can be retrieved simply by overpull; there is no release feature.

PACKING ELEMENT

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

NOMINAL CONDITIONS

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

- » BHP < 5,000 psi
- » Negligible H₂S and CO₂
- » BHT < 275°F
- » ΔP 5,000 psi

RELIABILITY

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



HAL122117

Retrievable Feed-Through MC Packers

| Type | Casing | | Mandrel Size | Max OD | Bore ID | Max Feed Through | Max Differential Across Element | Working Pressure | Working Temperature | Required Setting Pressure | Element Type | ISO 14310 Rating | | | |
|-------------------|--------|--------|--------------|--------|-----------|------------------|---------------------------------|------------------|---------------------|---------------------------|--------------|------------------|-----------|------|---------|
| | Size | Weight | | | | | | | | | | | | | |
| | in. | lb/ft | | | | | | | | | | | | | |
| Production Packer | 7 | 23 | 3 1/2 | 6.18 | 2.817 | 8 | 5000 | 5000 | 80 to 275 | 3500 | Nitrile | V3 | | | |
| | | | | | | | | | 70 to 284 | 4000 | HNBR | | | | |
| | | 26 | 3 1/2 | 5.992 | 2.817 | | | | 75 to 275 | 2500 | FKM | | | | |
| | | | | | 2.812 | | | | | 4000 | Nitrile | | | | |
| | | 26-29 | 3 1/2 | 5.987 | 2.817 | | | | 5.992 | 3000 | 5000 | | 70 to 285 | 2400 | Nitrile |
| | | | | | | | | | | | | | 80 to 275 | | Nitrile |
| | 29 | 3 1/2 | 5.995 | 2.817 | 5.992 | 5000 | 5000 | 80 to 285 | 2963 | Nitrile | | | | | |
| | | | | | | | | 2500 | HNBR | | | | | | |
| | 9 5/8 | 40 | 4 1/2 | 8.614 | 3.81 | 5000 | 5000 | 5000 | 80 to 275 | 4500 | HNBR | | | | |
| | | | 5 1/2 | | 4.58 | | | | | 3500 | 3500 | | HNBR | | |
| | | 43.5 | 4 1/2 | 8.515 | 3.82 | 5000 | 5000 | 5000 | 70 to 275 | 4000 | HNBR | | | | |
| | | 47 | 3 1/2 | 8.44 | 2.75 | | | | 80 to 275 | 4000 | Nitrile | | | | |
| | | | | | | 4715 | HNBR | | | | | | | | |
| | | 47 | 3 1/2 | 8.44 | 2.75 | 80 to 275 | 4000 | HNBR | | | | | | | |
| | | | | | | | 4000 | Nitrile | | | | | | | |
| | | 47 | 3 1/2 | 8.44 | 2.75 | 80 to 285 | 4000 | Nitrile | | | | | | | |
| | 4000 | | | | | | HNBR | | | | | | | | |
| | | 4 1/2 | | 3.81 | 80 to 275 | 4000 | HNBR | | | | | | | | |
| Isolation Packer | 5 1/2 | 13-17 | 2 7/8 | 4.7 | 2.399 | 6 | 1500 | 5000 | 75 to 275 | 3000 | Nitrile | | | | |
| | 7 | 26-29 | 3 1/2 | 5.98 | 2.885 | 8 | 2500 | 5000 | 75 to 275 | 2400 | Nitrile | | | | |

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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