

M-Bubble Bridge Plug

DESCRIPTION

M-Bubble Bridge Plugs feature an additively manufactured unfolding Inconel element, this advanced technology delivers an unmatched combination of internal diameter expansion (up to 300%), high pressure and temperature ratings, and a proven track record in the field.

Engineered for reliable high-pressure sealing, these tools can isolate pressured or flowing zones in a single, fast, and cost-effective run.

Their versatility makes them ideal for solving a wide range of complex downhole plugging, sealing, and isolation challenges across various well types. Common applications include water shut-off, zonal isolation, plug and abandonment, and CCUS operations.

A standard M-Bubble Bridge Plug is designed for 2-1/8" OD tools and can set and seal in up to a 6-5/8" casing/liner. Tools with 2-5/8" OD can set and seal in up to a 7" casing/liner.

FEATURES AND BENEFITS

→ Innovative Design:

Produced using advanced additive manufacturing, the Inconel element provides exceptional strength, durability, and corrosion resistance, ensuring reliable performance in demanding downhole environments.

→ Unmatched Performance:

Delivers industry-leading isolation with internal diameter expansion of up to 300%, allowing effective sealing across a wide range of casing and tubing sizes.

→ Unique Fluted Design:

The unique fluted structure unfolds from a compact state into a robust 3D form through controlled hydraulic activation. This precise geometric transformation guarantees consistent and stable deployment.

→ Robust Structure:

Utilizes internal hydraulic pressure to achieve a secure and repeatable seal. Available with metal-to-metal or labyrinth seal configurations to address varying tubing integrity requirements.



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FEATURES AND BENEFITS

- Unrivalled 300% ID delta.
- In-flow, thru-tubing, high-pressure deployment.
- Applications include: permanent plugging, zonal isolation, cement retainer, hanger, well workover, abandonment.
- Flexibility in the design of the packers, packoffs and plugs makes the range suitable for a variety of well configurations and tubing/ casing/ liner sizes.
- They can be run on either slickline or electric line and set using powered setting tools, or run on coiled tubing and set using flow activated running tools.

Ideal for Water Shut-Off Applications

The M-Bubble is ideal for water shutoff and effectively eliminates unwanted water production, offering a step change in consistency and reliability. By extending well life, significantly reducing water processing costs and optimising production, this solution empowers operators with a reliable way to shut off water in mature wells

Ideal for P&A Applications

The deployment of M-Bubble as an abandonment plug is via Slickline, wireline or coil tubing significantly reducing ABEX associated with workover rig use, enabling a smaller equipment, footprint, reducing POB, and potentially eliminating the need to pull tubing.



SPECIFICATIONS

Running OD	Setting ID	Pressure Rating	Temp. Rating
1.750"	3.826" (4 ½" 13.5 lb/ft)	1,000 psi/ 2,600 psi	150°C
2.125"	2.992" (3 ½" 9.2 lb/ft)	5,000 psi	150°C
2.125"	3.476" (4" 11 lb/ft)	4,500 psi	150°C
2.125"	3.958" (4 ½" 12.6 lb/ft)	4,500 psi	150°C
2.125"	4.408" (5" 15 lb/ft)	3,500 psi	150°C
2.125"	4.892" (5 ½" 17 lb/ft)	3,500 psi	150°C
2.125"	5.920" (6 ⅝" 24 lb/ft)	500 psi	150°C
2.625"	6.366" (7" 23 lb/ft)	2,000 psi	150°C
2.625"	6.276" (7" 26 lb/ft)	2,000 psi	150°C
2.625"	6.276" (7" 26 lb/ft)	2,000 psi	150°C
2.625"	6.184" (7" 29 lb/ft)	2,000 psi	150°C
2.125"	4.892" (5 ½" 17 lb/ft)	3,500 psi	150°C
2.500"	5.920" (6 ⅝" 24 lb/ft)	2,000 psi	150°C

