

A detailed close-up photograph of a metallic drill pipe assembly. The central component is a bridge plug with a packer, featuring a series of longitudinal slots and a central bore. The assembly is shown in a perspective view, highlighting the intricate mechanical details and the polished surface of the metal.

dti

Bridge Plugs & Packers

UNFOLDING METAL PLUG TECHNOLOGY

M-Bubble Bridge Plug and Packer

DTI's unfolding metal M-Bubble plugs and packers incorporate an additive manufactured metal element and are the result of four years of research and development. They offer the industry an unrivalled combination of high OD delta transformation (up to 300%), pressure rating and temperature rating and have built an excellent track record in the field.

These products have the strength and durability for serious high-pressure sealing and can isolate pressured and flowing zones in a fast and cost-effective single run. They help to solve a range of complex plugging,

sealing and isolation challenges in a variety of wells and are typically used in applications where the tool is required to pass through a narrow completion string and set and seal in the casing or liner below. They are suitable for water shut-off, zonal isolation, plug and abandonment and CCUS applications.

A standard M-Bubble is designed for 2-1/8" OD tools and will set and seal in up to a 6-5/8" casing/liner. 2-5/8" OD plugs will set and seal in a 7" casing/liner. Multiple other sizes, temperatures and pressure variants are in development.

- Permanent solution
- Unrivalled 300% OD transformation
- In-flow, thru-tubing, high-pressure deployment
- Up to 6,500-psi working pressure

Product Number	Running OD	Setting ID	Pressure Rating	Temp. Rating
MB-WL175AD4513V	1.750"	3.826" (4-1/2" 13.5 lb/ft)	1,000 psi/2,600 psi	175°C
MB-WL213BB5517H	2.125"	4.892" (5-1/2" 17 lb/ft)	3,500 psi	125°C
MB-WL213BB6624H	2.125"	5.920" (6-5/8" 24 lb/ft)	500 psi	125°C
MB-WL263BB7026V	2.625"	6.276" (7" 26 lb/ft)	2,000 psi	150°C

NB. Other sizes are available



PKB Bridge Plugs and Packoffs

The PKB bridge plug meets the need for a low-cost, easy to run plug in 2-3/8" to 4-1/2" completions with a 5,000 psi maximum working pressure. It is designed to be run and set on slickline without any special setting tools and run and pulled using standard GS pulling tools.

- Low-cost
- Easy to deploy

It is typically supplied with melon or prong type equalizing devices however it is adaptable and can be used as a gauge hanger, standing valve or injection valve. The bridge plug has also been adapted to be used as a packoff as part of a straddle sleeve and for gas lift systems.

- Adaptable
- Up to 5,000psi working pressure

Size	Outside Diameter	Pressure Rating	Running Tool	Pulling Tool	Tubing/Casing Size
2-3/8"	1.85"	5,000 psi	2" GS	1-1/2" GS	2-3/8" 4.6 lb/ft
2-7/8"	2.25"	5,000 psi	2-1/2" GS	2" GS	2-7/8" 6.4 lb/ft
3-1/2"	2.72"	5,000 psi	3" GS	2-1/2" GS	3-1/2" 9.2 lb/ft
4-1/2"	3.72"	5,000 psi	4" GS	3" GS	4-1/2" 12.6 lb/ft

NB. Other sizes are available



Inter-Expansion Plugs and Packoffs

Our Inter-Expansion (IX) range of downhole sealing solutions are the latest addition to our range of plugs and packers and were introduced to meet industry demand. The IX range fills a gap between the PKB sealing solution and the UHX sealing solution. They are rated to 7,500 psi working pressure and are API 11D V3 rated.

- Shortest bridge plug in the industry
- Retrievable and permanent
- In-flow, thru-tubing, high pressure deployment

They have been designed with an excellent working pressure rating to ID ratio with straddle sleeves in mind. The IX Plugs can be run and set on slickline/e-line using a powered setting tool or on coiled tubing using a hydraulic setting tool. The current range for IX plugs and packers is from 2-3/8" tubing through to 7" tubing.

- Large through bore
- V3 rated
- Up to 7,500 psi working pressure

Tubing Size	2-3/8"	4-1/2"	5-1/2"
Tubing Weight	4.6 lb/ft	11.6-12.6	15.1-20.0
Running OD	1.85"	3.60"	4.55"
ID	TBC	2.20"	2.90"
Length*	27.00"	29.80"	29.80"

NB. Other sizes are available





Technology innovation with quality and reliability at the core.

DTI is a specialist in innovative downhole technology for the global energy industry. We design and manufacture tools to solve current and emerging challenges for the oil and gas, gas storage, CCUS, hydrogen storage and geothermal production sectors.

WWW.DTI.UK.COM | +44 1202 690001 | ENQUIRE@DTI.UK.COM

UK - enquire@dti.uk.com

Europe - eur@dti.uk.com

North America - nam@dti.uk.com

Latin America - lam@dti.uk.com

North Africa - afn@dti.uk.com

Sub-Saharan Africa - ssa@dti.uk.com

Middle East - me@dti.uk.com

Asia Pacific - apac@dti.uk.com