Redefining Well Solutions

Storaneset 20, PO Box 23
52 60 Indre Arna
Norway

tco@tcogroup.com
+47 53 50 16 71
tcogroup.com

TCO Tubing Disappearing Glass Plug

TCO Tubing Disappearing Glass Plugs (TDP) provide a total seal against all fluids. The patented laminated glass material can withhold high levels of differential pressure from both sides and disintegrates into small particles after removal.

TCO TDP is installed and run as an integrated part of the completion string or liner. This increases the efficiency of the installation process and enables full bore access after the plug has been removed. The glass barrier enables the operator to isolate sections of the well during completion phase. Once the glass barrier is opened it allows full bore access for all future interventions.

TCO provides glass plugs to different applications with various opening mechanisms:

TDP Remote Open

The TDP Remote Open uses a rubber bellow to separate the well bore fluid from the silicon oil in the cycling mechanism. This is to ensure that debris from the well will not limit the function of the cycling mechanism. The mechanism can be mechanic, electronic or both, based on system permissions in connection to multiple pressure cycles before opening. The glass plug may be set up with explosives or mechanical breaking.

TDP Pump Open

The TDP Pump Open contains an internal pump open device which is set to open on a specific differential pressure. Simply apply pressure up to a pre-set value and the plug will open.

TDP Mill Open

TDP Mill Open has a variety of removal options including tractor on e-line, coil tubing or drill pipe in addition to spear open on slickline or open with shoot down tool.

Applications

- Completion barrier plug
- Isolate lower completion
- Packer setting device
- Fluid loss control device
- Pressure testing
- Casing flotation device (Pump Open version)

Features & Benefits

- Large bore access
- Safer operations
- No external personnel required
- ISO14998, ISO 14310 V0 certified
- Reduce / eliminate need for intervention operations
- Debris tolerant
- Reduced rig time
- Easy removal compared to deep-set / horizontal wireline plugs
- Integrated installation

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4313 Sandnes
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TCO Tubing Disappearing Glass Plug Portfolio

TDP-3 Remote Open

Product Type	Outer Diameter	Inner Diameter	Temperature	Diff. Pressure	ISO 14310 Certification
8.33x5.88	8,33"	5,88"	145 °C / 293 °F	6 500psi / 448bar	V0
8.00x4.30	8,00"	4,30"	150 °C / 302 °F	7 500psi / 517bar	V0
8.33x4.67	8,33"	4,67"	150 °C / 302 °F	8 500psi / 586bar	V0
5.87x3.00	5,87"	3,00"	150 °C / 302 °F	6 000psi / 414bar	V0

TDP NonEx Remote Open

Product Type	Outer Diameter	Inner Diameter	Temperature	Diff. Pressure	ISO 14310 Certification
8.33x6.09	8,33"	6,09"	135 °C / 275 °F	5 000psi / 345bar	V0

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TDP Pump Open

Product Type	Outer Diameter	Inner Diameter	Temperature	Diff. Pressure	ISO 14310 Certification
5.00x3.00	5,00"	3,00"	130°C / 266°F*	6 000psi / 414bar	V0
5.72x3.75	5,72"	3,75"	135°C / 275°F	5 000psi / 345bar	V0
7.09x4.77	7,09"	4,77"	110°C / 230°F	5 000psi / 345bar	V6

**Tested to 160°C/320°F with ISO 14310 V6 certification*

TDP Mill Open

Product Type	Outer Diameter	Inner Diameter	Temperature	Diff. Pressure	ISO 14310 Certification
8.33x5.88	8,33"	5,88"	175°C / 347°F	5 000psi / 345bar	V0
5.87x4.00	5,87"	4,00"	135°C / 275°F	5 000psi / 345bar	V0
5.50x3.60	5,50"	3,60"	135°C / 275°F	5 000psi / 345bar	V0
4.57x2.99	4,57"	2,99"	150°C / 302°F	10 000psi / 690bar	V0
3.60x2.00	3,60"	2,00"	150°C / 302°F	5 000psi / 345bar	V0

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