

TDP-NONEX

NON EXPLOSIVE



PRODUCT DESCRIPTION

TCO's Tubing Disappearing Glass Plug (TDP) NonEx enables the operator to increase the efficiency of the installation process and provide a large bore access upon removal. The TDP NonEx is designed to be installed and runs as an integrated part of the completion string or liner. The TDP NonEx uses rubber diaphragms to separate wellbore fluids from the clean fluid, as well as keeping the cycling mechanism debris free.

TCO's TDP NonEx is further developed to improve installation and remote pressure cycling capabilities. The product incorporates TCO's patented laminated glass material, built into the ISO 14998:2013 Vo certified barrier plug package. This provides a total seal against all fluids under extreme conditions including situations with high differential pressure across the barrier. In addition to TCO's built-in remote opening mechanism, a variety of removal options are available as a contingency. Full ID is always guaranteed after opening.

The balanced counter adds a new feature to the product and separates it from our existing trigger system by pressure cycles within a pressure window of 200bar (2900psi) regardless of TVD or Sg. This enables TCO to deliver a standardized product suitable to any well. The TDP NonEx is supplied with a 2,0-metre debris extension as standard, for use in wells with expected debris issues.

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FEATURES & BENEFITS

- Large bore access
- Safer operations
- No external personnel required
- ISO 14998:2013 certified, Annex A.8 Vo with axial loads
- Debris tolerant
- Balanced cycling mechanism
- No explosives
- Lower costs
- Intervention-free installation
- Remotely removal of barrier
- Reduced rig time
- Easy removal compared to deep-set/ horizontal wireline plugs
- Laminated glass
- Debris extension
- Integrated Installation

APPLICATIONS

- Completion Barrier Glass Plug
- Isolated lower completion while installing upper completion
- Reduce/ eliminate need for intervention operations
- Packer setting device
- Completion Testing and Packer Setting
- Intervention Free Completions
- Remotely Actuated Barrier Device

Case Studies

- [First TDP-NonEx Deployed on the Norwegian Continental Shelf](#)
- [The World's First Installation of a TCO TDP-NonEx Deployed and Opened Successfully in the UAE](#)

OD	ID	Diff. Pressure	Temp.	Abs. Pressure	ISO Cert.	Rating
4,52"	2,60"	517bar/7 500psi	155°C/311°F	1034bar/15 000psi	ISO 14998	Vo Annex A.8
4,72"	2,75"	690bar/10 000psi	155°C/311°F	1034bar/15 000psi	ISO 14998	Vo Annex A.8
5,87"	4,00"	517bar/7 500psi	150°C/302°F	1034bar/15 000psi	ISO 14998	Vo Annex A.8
8,15"	5,80"	448bar/6 500psi	135°C/275°F	1034bar/15 000psi	ISO 14998	Vo Annex A.8
8,33"	5,80"	448bar/6 500psi	135°C/275°F	1034bar/15 000psi	ISO 14998	Vo Annex A.8
8,33"	6,09"	345bar/5 000psi	135°C/275°F	345bar/5 000psi	ISO 14998	Vo Annex A.8