

Single Pin Vertical EFS: Permanent Downhole Gauge

For Downhole Completions

Teledyne DGO offers an advanced, high-reliability subsea wellhead single channel electrical feedthrough system for use in intelligent completions with permanent downhole instrumentation. The pressure-compensated connection system is designed for long term reliability in demanding subsea and downhole environments. The system operates in extreme HPHT exposure as well as sour well (H₂S) conditions, aggressive production and packer fluids.

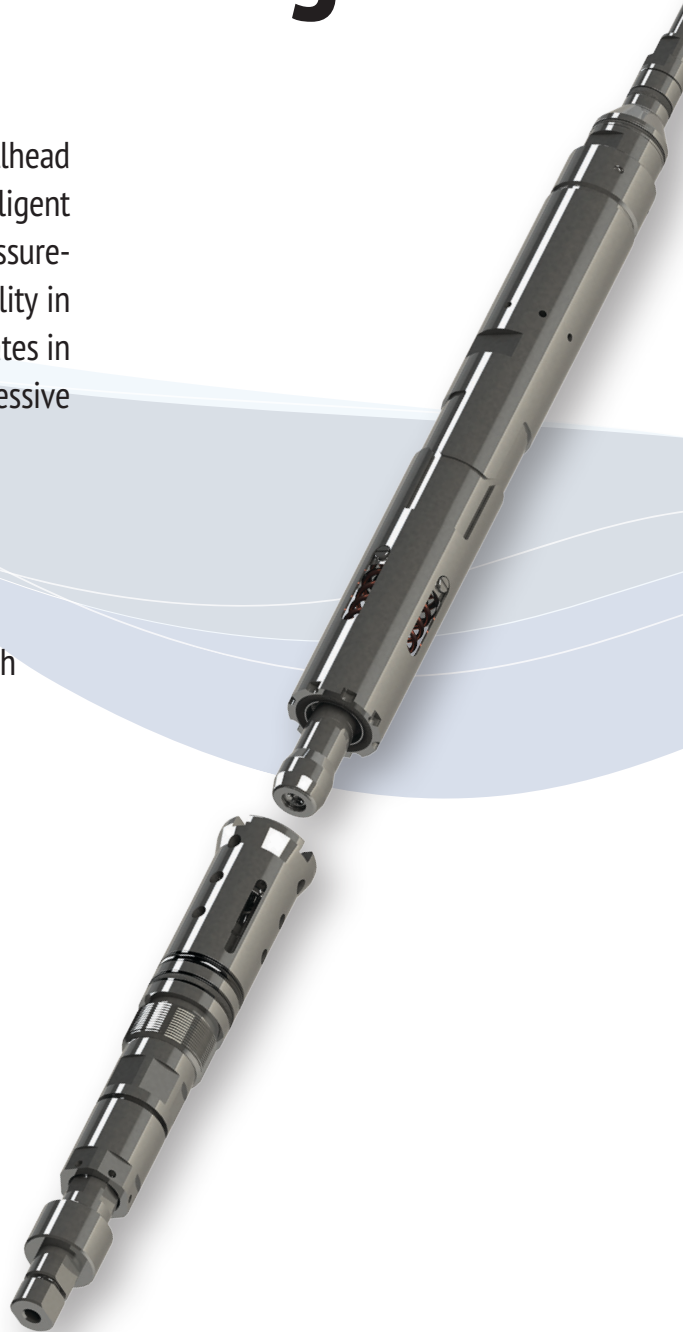
Dual barrier philosophy throughout:

- Primary metal seals
- We use a minimum of 2 seals for each pressure barrier
- Always a minimum of 2 insulators between conductor and earth

Qualified I-ET-3000.00-1516-823-PEK-003

PRIMARY FEATURES AND BENEFITS

- Glass-to-metal sealed pressure barriers
- Interchangeable with hydraulic couplers
- Pressure-compensated system
- Rig-testable interface seals
- Standard Ø1/4" (6.35 mm) downhole gauge control line interface
- Underwater, wet-mateable connections
- Modular design to suit varying installation envelopes
- Simple, quick, secure, reliable downhole gauge connector rig terminations



TELEDYNE MARINE
Everywhere you look™

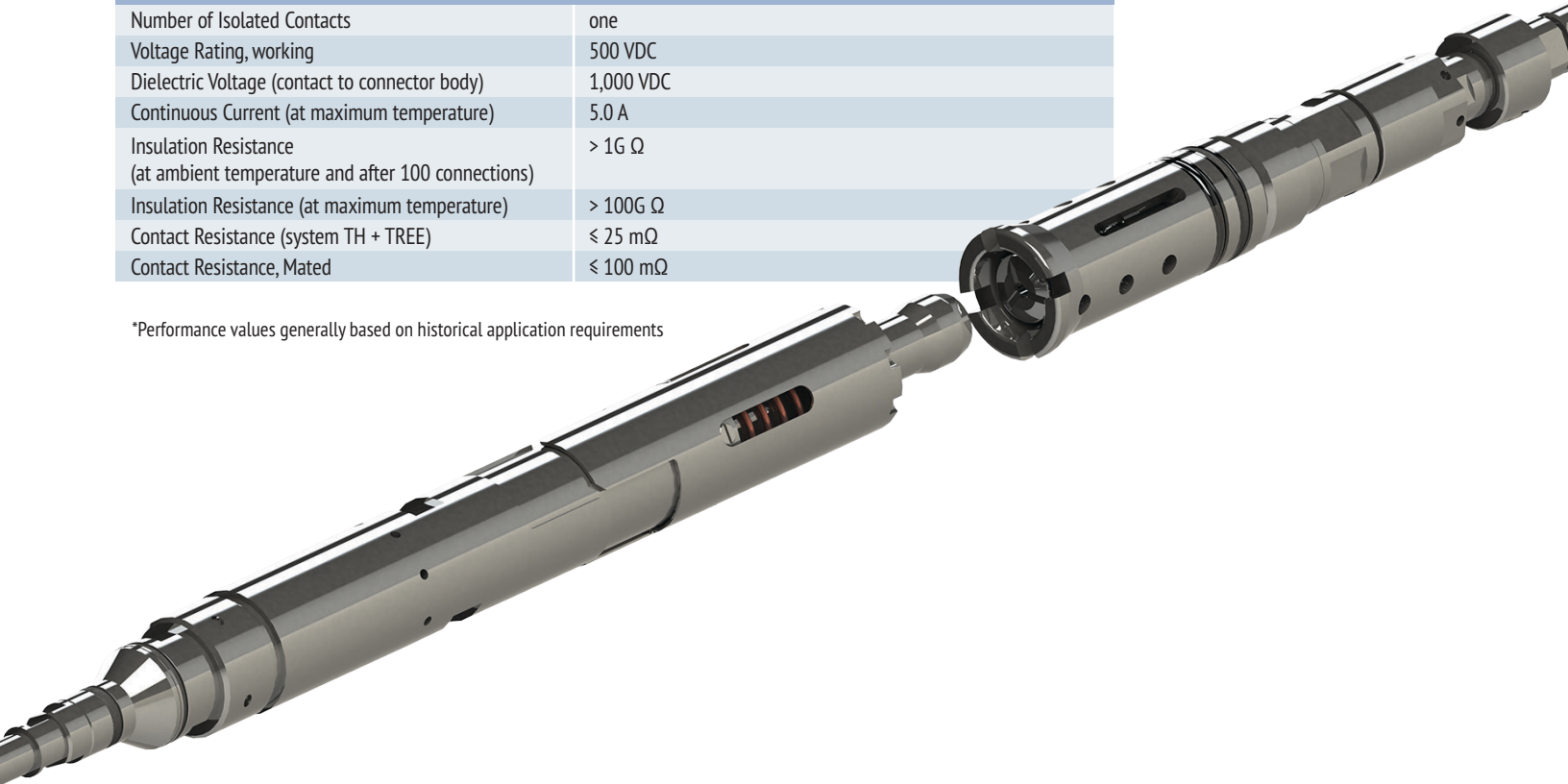
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TECHNICAL SPECIFICATIONS*

ENVIRONMENTAL	
Maximum Working Pressure	10,000 psi (689 bars)
Test Pressure (1.5 times)	15,000 psi
Operational Temperature	32°F to 275°F (0°C to 135°C)
Minimum Storage Temperature	0°F (-18°C)
MECHANICAL SPECIFICATIONS	
Axial Misalignment	±0.5" (±12.7 mm)
Angular Misalignment	±1.0°
Lateral Max Misalignment	±0.1" (2.54 mm)
ELECTRICAL SPECIFICATIONS	
Number of Isolated Contacts	one
Voltage Rating, working	500 VDC
Dielectric Voltage (contact to connector body)	1,000 VDC
Continuous Current (at maximum temperature)	5.0 A
Insulation Resistance (at ambient temperature and after 100 connections)	> 1G Ω
Insulation Resistance (at maximum temperature)	> 100G Ω
Contact Resistance (system TH + TREE)	≤ 25 mΩ
Contact Resistance, Mated	≤ 100 mΩ

*Performance values generally based on historical application requirements



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www.teledynemarine.com
 1026 N. Williamson Boulevard, Daytona Beach, FL 32114 USA
 Tel +1-386-236-0780 or 1-888-506-2326 • Fax +1-386-236-0906
 Email: teledynemarine@teledyne.com

Specifications subject to change without notice.
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