

# HV JUICE

## NEW Oil Catchment System Technology

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gomero™



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Recloser by  
G&W**  
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# 6 PIECE BRASS STAND OFF SET

111BSOS

This stand off set contains 3x25mm and 3x50mm long extensions and is used when the earth link is inserted into DIN fuse carriers that are deeply recessed. The stand off allows the earthing harness to suspend nicely without any undue pressure on the earth harness lugs or fuse carrier. Removing this pressure prevents potential damage to both the earth harness lug and fuse carrier. They are used in conjunction with the 1115281041T LV Din Earthing Sets.



## LV DIN EARTH SET FOR FUSE OUTLET

This earthing set is designed for earthing of LV DIN switches and is suitable for indoor and outdoor use. The set consists of short-circuiting cartridges, short-circuiting Cu cables in transparent insulation, earthing Cu cable, earthing clamp and insulating pole enabling you to safely attach the set. The insulating pole is made of glass fibre laminate which is suitable for its high electrical and mechanical resistance and stability. Produced according to standards CSN EN 61230, IEC 1230, PNE 35 9705, DIN 46 235.

### FEATURES

- Type-tested according to standards CSN 35 9700, PNE 35 9705, CSN EN 61230 and IEC 1230
- Each set comes tested, tagged, and ready to go into service
- Delivered in a sturdy plastic storage box
- Instructions for use and test certificate included
- 24 month warranty for manufacturing defects



**USE WITH  
LV DIN EARTH SET  
FOR FUSE OUTLET**



CAT No. 1115281041T



## The SIPP Solution

The transformer oil bund or pit is the most secure oil catchment system and, in most cases, the most cost-effective. However, these are traditionally fitted with oil-water separators which do not typically filter emulsions (a mix of water and oil), and most of them lack effective alarms systems, making maintenance work ineffective and reactive rather than proactive and often unnecessarily costly. In addition, traditional filtration systems will not detect small particles of Midel and other non-mineral oils.

### Features

- Enables predictive maintenance based on remote monitoring and real asset condition
- A cost-effective solution that proactively protects environment and improves maintenance
- Easy to retrofit or install as a new project
- Customisable
- Measures and tests all water discharged (1 sample every second of all discharges 24/7)
- Knows exactly how much water & oil are in the bunds or pits at any given time
- The SIPP Oil sensor is easy to change (typical 5-10 PPM and has a verified accuracy of +/- 1 PPM)
- Documents and archives all discharges made, easily accessible on Mobile, Tablet or Desktop
- Leak monitoring and detection
- Can be used in locations where Midel and other non-mineral oils are used

SIPP allows real-time detection and monitoring of oil in water in oil-catchment bunds or pits. The accuracy of the SIPP unit is due to its unique oil sensor, specifically designed to detect Transformer oil & Diesel oil and now also proven its accuracy for Synthetic Ester oil too. The flexible technology allows the desired threshold level for discharged clean water to be set, ranging from 2-20 PPM oil/water content.

The SIPP unit utilises natural gravitation to get as much of the clean water out

*The SIPP oil sensor utilizes infrared light to measure accurately based on how light is reflected in the water flow through the units.*

onsite. If the unit detects oily water above its set threshold value during the discharge process, the solenoid valves will switch mode so that the oily water is returned to the pit. After each discharge the SIPP system runs a purge process to ensure no water is left in the system before closing down, ensuring there is no algae or bacteria growth in the SIPP units.

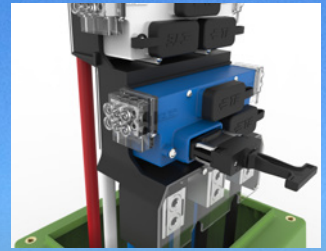
The SIPP system has an alarm management platform where clients can control their notifications and stay informed.





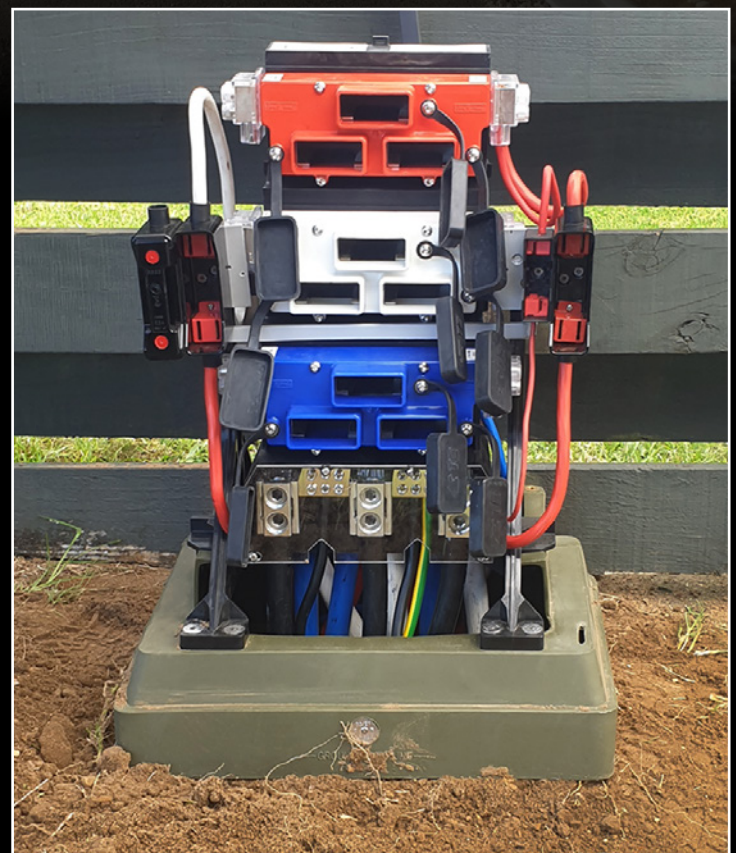
## FEATURES & BENEFITS

- Whether a new install or retrofit we have the solution for any application
- Specifically designed for use in utility applications
- Touch safe - no bare live parts
- Easy to install
- Can be installed in a range of pillars & cabinets
- 70mm<sup>2</sup> to 300mm<sup>2</sup> mains & up to 70mm<sup>2</sup> service connections
- Tested to 600 AMPS
- Capacity to house additional service fuses for street lights or customers
- UV stable Rotathene 6329 plastic pillar body
- All products come with installation instructions and components list
- Functional link and isolation capacity allowing minimal customer outage minutes during fault conditions
- Aids quick and easy fault finding in LV networks
- Maximum flexibility control of your LV network



FROM  
THIS

TO  
THIS



These pictures show only some of the many ways the Tappat Link Pillar can be used. Contact us for assistance on a solution for your application.



## YOUR COMPLETE LV SWITCHING & ISOLATING SYSTEM



### FEATURES AND BENEFITS

- Range taking up to 300mm<sup>2</sup> mains cable
- Fully insulated CAMLOK link tested to 600 Amps
- Eliminates above ground consent issues
- Different pit & lid options available to suit customers' specific requirements
- Pit depth can be tailored to the requirements of each installation by adding or removing enclosure modules
- Complete solution, can be supplied tailed or untailed
- Jacking screws allow lid adjustment for uneven ground levels
- Functional switching ability allows for easy sectionalising during fault conditions reducing outage times
- Touch safe fittings, no exposed live metal work
- Can accommodate PILC and XLPE cables
- Complies with all applicable international standards: EN50393:2006, EC60439.5:2006, Ed2.0, C.81/3:1996, Pit & Lid meet B125 & EN124 standards
- Pit is made of durable HDPE plastic
- Stabilising base pad included with every kit
- Complete with circuit I.D. labels

Designed collaboratively with our utility customers, the Tappat underground link box is perfect for new installations or as a like for like replacement for existing bitumen filled link boxes at the end of their asset life.

Available untailed or pre-tailed with flexible copper tails ready to joint to existing cables on site. It is available in 2way or 4way configuration with 600amp CAMLOK links included.

- Safe and economical to install & operate
- Fully submersible
- Aesthetically pleasing in ground installation

Learn more about the Tappat range of products at [te.com](http://te.com)



Cat No.	Description	Dimensions (mm)
TAP10710-NZ	TAPPAT 4 WAY LINK BOX COMPLETE - UNTAILED	762 × 609 × 564H
TAP10710-NZ-TAILED	TAPPAT 4 WAY LINK BOX COMPLETE - TAILED	762 × 609 × 564H



# INTRODUCING THE G&W TEROS™ RECLOSER

The new Teros recloser is a solid dielectric three-phase gang operated 15kV and 27kV recloser device that provides system reliability and grid resiliency at a very competitive price.

## FEATURES & BENEFITS

### Simplified Mechanism

- Contains a minimum of operating components
- No operating electronics in the main enclosure
- Lightweight

Highly reliable and maintenance-free device

Clear visibility of the position indicator from the bottom of the pole

### Modular Control Platform

- Plug-and-Play design
- Simple and modular layout of control components
- Quick disconnection and reconnection of components without removal of other/unrelated parts

### Smart Technology

- Integration of 6 Internal Voltage Sensors (6VS) and 3 Current Transformers as standard
- GE Multilin R650 control relay
- Supports the latest in communications and protocols (DNP, IEC 61850, etc.)
- Provides standard security tools for the integration into new or existing SCADA, OMS, or DMS

### Environmental

- Higher creepage and sealed mechanism significantly improve service life

## APPLICATIONS

Designed to reduce the amount, frequency, and duration of outages on Overhead Distribution Systems:

- Main Distribution Lines & Branch Circuits
- Substations
- Reclosing
  - High-speed clearing of Temporary Faults
  - Radial Overcurrent Protection
- Sectionalizing/Switching
  - Load break switching
  - Open Tie points
- Automation Platform
  - System reconfiguration
  - Automatic transfers
- Pole Centre-Mount & Side-Mount options



GE R650 relay module

VIEW PRODUCT INFO



**G&W**  
Engineered to order. Built to last.

# VIPER-HV 72.5 KV RECLOSER BY G&W

## THE WORLD'S FIRST HIGH-VOLTAGE POLE TOP RECLOSER

## FEATURES & BENEFITS

- Reliable overcurrent protection on sub-transmission lines

### Compact 3-in-1 Device

- Incorporates the recloser, CTs, and VTs in a single space-saving design
- Modular and flexible pole-top mounting configurations with different relay options

### Maintenance Free

- No oil or gas, and no need for routine maintenance which improves personnel safety

### Operator Safety

- The vacuum interrupter and all other energized parts are sealed within field proven solid-dielectric insulation

### Increased Reliability

- Current carrying path is protected from the environment
- The magnetic actuator is connected to the vacuum bottle
- No gears or motors are impacted by outside elements

### Plug-and-Play Installation

- The protection relay is in an outdoor control with connectorized control cables on both ends

### Automation Ready

- Future proof - provides faster fault isolation, restoration, and reconfiguration capability

## APPLICATIONS

### RECLOSING

- High-speed clearing of temporary faults
- Radial overcurrent protection

### SECTIONALIZING/SWITCHING

- Load break switching
- Open tie points
- Utility interconnection point

### AUTOMATION PLATFORM

- System reconfiguration
- Automatic transfers
- FDIR/FLISR

## RATINGS

Voltage Class	72.5kV
Continuous Current	1200A & 2000A
Interrupting Current	31.5kA
Short-Circuit Making	80kA pk
Short-Time Withstand	3 seconds
BIL	350kV
Mechanical Endurance	10,000

VIEW PRODUCT INFO



**G&W**  
Engineered to order. Built to last.





# Arc Rated Merino Base Layers



ATPV 4.2cal/cm<sup>2</sup> Arc Rating

These superior quality garments are designed for the workplace and offer ultimate comfort and durability. Merino wool provides natural warmth, breathability, and temperature regulation, and is blended with FR treated Viscose.

## Features

- High quality 50% Merino Wool / 50% FR treated Viscose fabric sewn with FR thread
- ATPV 4.2cal/cm<sup>2</sup> Arc Rating
- Size options from s-3XL
- HRC1 labels are sewn into each garment
- Machine washable & quick drying



## Compliance & Standards

### AS/NZS 1906.4:2010

Hi Visibility material for Safety Garments

- Class D: Daytime use

### Durability

- AS 2001.4.15:1994 - Determination of Colourfastness to Washing
- AS 2001.4.E04:2005 - Determination of Colourfastness to Perspiration
- AS 2001.4.B02-2001 - Colourfastness after UV Exposure (Dry)

### ASTM F1506-18

Garments for Electrical Safety in the Workplace

- ASTM F1959/F1959M-14 Arc Rating: ATPV 4.2cal/cm<sup>2</sup>
- NFPA70E CAT1: HRC1/PPE1
- ASTM6413/6413M-15 Vertical Flame Test



**BMFR822**  
Men's Long Johns



**BMFR866**  
Men's Boxers



**BMFRBEAN84**  
Skull Beanie



**BMFRNECK85**  
Neck Warmer



**BMFRBALA82**  
Balaclava



**BMFR823**  
Men's short sleeve V

**BMFR821**  
Men's long sleeve crew



## STANDARD



### FEATURES

- 40 cal/cm<sup>2</sup> ATPV Rating
- 88/12 Premium Indura Cotton Blend
- Hook & Loop enclosure
- Dual expansive back panelling
- 32" long jacket, 32" inseam overalls
- Standard or lift front clear hood options
- Meets current ASTM F1506 and NFPA 70E standards

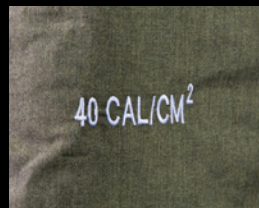


## PREMIUM



### FEATURES

- 40 cal/cm<sup>2</sup> ATPV Rating
- **Approximately 50% lighter fabric weight than standard 40 calorie garment**
- 2 layers – 5 oz/yd<sup>2</sup> & 6 oz/yd<sup>2</sup> - Sewn with Nomex® thread
- 32" long jacket, 32" inseam overalls
- Standard or lift front clear hood options
- Hook & Loop enclosure
- Dual expansive back panelling
- Meets current ASTM F1506 and NFPA 70E standards



## HOOD OPTIONS

### SWITCHGEAR HOOD



### FEATURES

- Premium Clear HT Lens
- Standard switchgear style

### LIFT FRONT HOOD



### FEATURES

- Extended Peripheral vision
- Permanent Anti Fog Visor
- Highly Transparent Visor
- Lift Front Design - easy access



Advanced Colour Differentiation Technology



Made in the USA





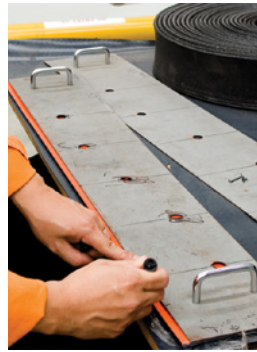
IT'S NOT HOW THICK IT IS, IT'S HOW STRONG IT IS



# DOES YOUR CABLE COVER COMPLY?

## AS/NZ4702-2000 PENETRATION TEST

One of the most important requirements of AS/NZ4702-2000 is that cable cover must pass a penetration test, where a specifically designed dart of known weight is dropped from a predetermined height through 125 joules of energy, representing potentially catastrophic damage to the cable cover. The cable cover passes the test only when the dart penetrates it by less than 50mm. Confusion is created with the reference to thickness of material. Cable cover to AS/NZ4702-2000 standard does not adhere to a thickness, it is determined by strength resulting from the penetration test.



## WHAT MAKES TRANSNET AS/ NZ4702-2000 CABLE COVER DIFFERENT

- NZ made from recycled HDPE plastic and fully recyclable
- Thinner and lighter while consistently complying with strength requirements of AS/NZ 4702-2000
- Custom widths available on request (MOQ & lead times apply)
- No contaminants and won't leech into soil
- Retains mechanical strength characteristics even in extreme temperatures
- Every batch is tested throughout the manufacturing process to ensure it consistently complies
- Custom runs available (MOQs & conditions apply)

# OURS HAS THE STRENGTH FOR THE JOB

VIEW THE RANGE



**ASTRON**  
breathing new life into plastics

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www.transnet.co.nz



## NEW & IMPROVED INDEPENDENT EARTH SPIKE & REEL

We've taken the IET15M to the next level.

This reel and spike is designed to attach to any voltage tester. It boasts 15m of lead and a sturdy spike to easily pierce even the hardest ground. The T handle ensures the tester cable is protected if force is required when penetrating hard ground.

Simple to use, the Independent Earth Tester Reel and Spike has a connection point on the end of the lead to simply poke the tester probe into. The beauty of this set up is if your tester or lead fails you can easily replace them without having to replace the entire unit.

The Stainless Steel spring operated bearing on the reel makes winding the lead user friendly and easy without twists and tangles. It also provides a permanent connection between the lead and spike.

Our Metrel testers are the perfect partner for the IET15M – get in touch for more info.

### KEY FEATURES

1. Sturdy Stainless Steel spike with 'T' handle
2. 15m green/yellow lead
3. Universal tester connection point (Tester sold separately. For a voltage tester perfect to pair with IET15M see the range on our website)
4. Spring and bearing to help wind cable back in without twists & tangles
5. Comes tested & tagged for immediate use



**IN STOCK!**



# TRUST THE EXPERTS

## TE Cable Accessories in Action



### Auckland

78 Cryers Road  
East Tamaki  
Auckland  
NEW ZEALAND  
Ph 0800 442 182  
PO Box 39 383  
Howick, Auckland

### Wellington

10 Petone Ave  
Petone  
Wellington  
NEW ZEALAND  
Ph 04 576 2530  
PO Box 39 383  
Howick, Auckland  
NEW ZEALAND  
sales@transnet.co.nz

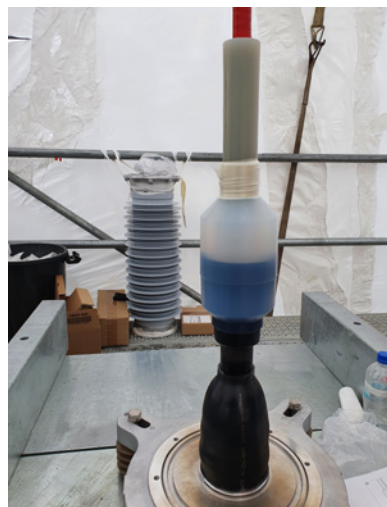
### TransNet Tonga

#### Nuku'alofa

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MainPower's commitment to maintaining a cutting-edge network can be seen by the work that has been taking place at the new Southbrook substation project. The reason for this project is to accommodate Rangiora's continued growth and development and ensure a safe, continued supply of electricity to the surrounding areas.

TE and TransNet supplied the Key 66kV Composite Self Supporting Terminations for this project – the installation of two new feeder circuits from Transpower's 66kV switchyard to the new Southbrook substation transformers. The cable is a 66kV 1-Core XLPE with water blocking tape, Corrugated Aluminium Sheath, Bitumen tape, HDPE sheath with extruded Semi-conductive PE outer layer.



TE Specialists Paul Godfrey and Andrew Wooles provided onsite training and supervision for the initial 6 x terminations, assisting the specialist team of cable jointers from PBA. PBA were the contractors for all the electrical work on the contract which included new transformers, switchgear, and associated cabling.



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