

STATION SERVICE POWER VOLTAGE TRANSFORMERS

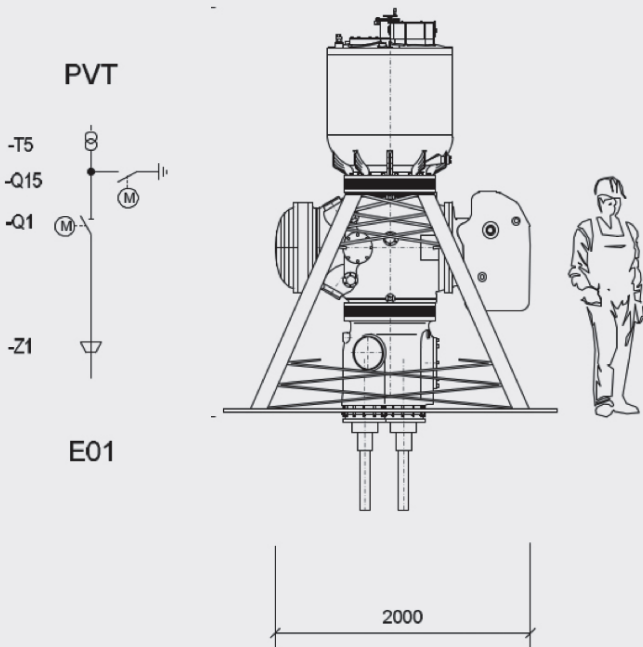
SSVT / PVT

How can Utilities ensure a reliable and continuous power supply within the substation, enabling uncompromised operation in all conditions? Power Voltage Transformers (PVT), also known as a Station Service Voltage Transformers (SSVT) offer the ideal solution.

A PVT is a single-phase transformer, based on well-known and proven Instrument Transformer technologies. It is connected within the substation in the same way as Voltage Transformers without the need of additional protection.

By reducing High Voltage to Low Voltage in a single step, the PVT provides "plug and play" auxiliary power supply.

This is the ideal solution compared to other alternatives, such as interconnection with a Medium Voltage distribution grid, or supply from the tertiary of a Power Transformer, which could possibly endanger its reliable operation.



APPLICATIONS OF GIS POWER VOLTAGE TRANSFORMERS FOR PUMPING STATIONS – UNDERGROUND CABLE

GIS Power Voltage Transformers in combination with reliable GIS compartments are the perfect solution for low voltage power supply for Oil and Gas Pumping Stations zones where underground cable for medium / high voltage line is already installed. Due to low weight and high reliability, our PVT can provide several advantages:

- Existing underground cable lines can be used with minimal civil / interconnection efforts
- Suitable for rated voltage up to 245 kV (higher voltage levels on request)
- Our PVTs / SSVTs can supply low voltage power up to 20 kVA directly where required, in remote pumping stations areas
- Low Footprint compared to other sources of power supply
- Remote Current, Voltage, Power and Temperature online monitoring
- Operational safety is ensured by using surge arresters and disconnectors / earth switches
- Insulation medium SF6 or carbon free with Clean Air technology

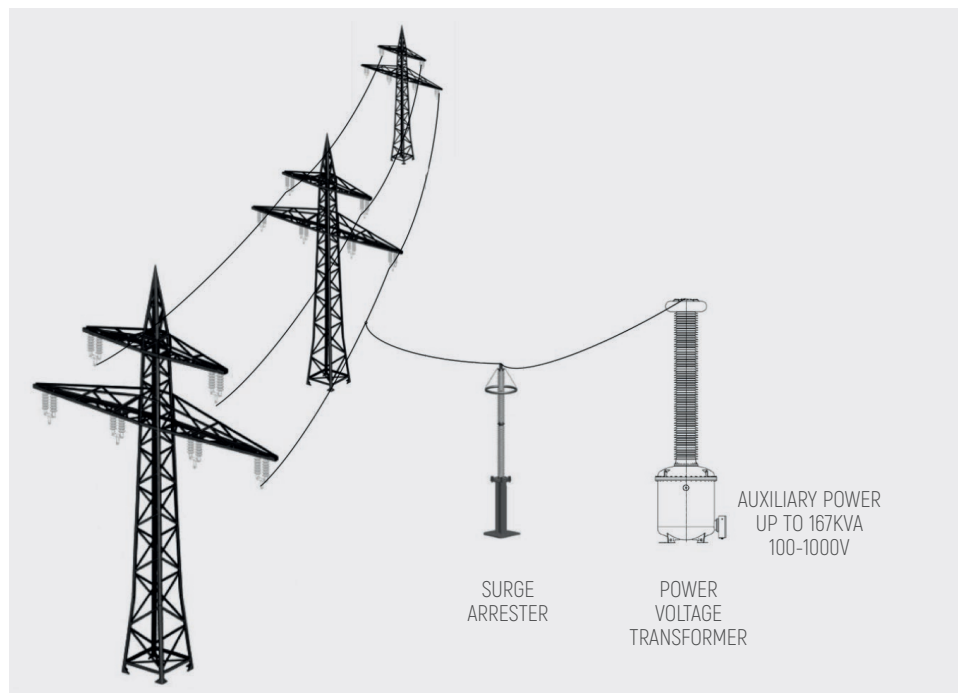
APPLICATIONS OF AIS POWER VOLTAGE TRANSFORMERS FOR PUMPING STATIONS – OVERHEAD LINES

Just as the GIS applications are based on connecting PVTs to underground cable, AIS Power VTs can be interconnected to the overhead line, thus enabling low voltage power supply for **Oil and Gas Pumping Stations zones** where high voltage lines are already installed.

- Existing overhead lines can be used with minimal civil / interconnection works
- Suitable for rated voltage up to 550 kV
- Our PVTs / SSVTs can supply low voltage power up to 167 kVA directly where required, in remote pumping stations areas
- Low Footprint compared to other sources of power supply
- Remote Current, Voltage, Power and Temperature online monitoring
- Operational safety is ensured by using surge arresters and disconnectors / earth switches
- Insulation medium SF6 or carbon free with Clean Air technology



SURGE ARRESTER, POWER VOLTAGE TRANSFORMER AND THE EXPLANATIONS ABOUT THE AUXILIARY POWER NEXT TO THE POWERT



For more resources on Power VT's for AIS and GIS substations, please check out our website: <https://www.trench-group.com/products/power-voltage-transformers>
Contact us sales@trench-group.com