SF6 Insulated Instrument Transformers for Outdoor Installation from 72.5 kV to 300 kV
Full Range of SF6 Insulated Instrument Transformer covering:
- Current
- Voltage
- Combined

Characteristics:
- Outdoor installation
- SF₆ and SF₆-ppr insulation
- Cast aluminium housings
- Conformity to the main international standards for design, test and construction of pressurised enclosures
- Head type design
- Explosion proof
- Maintenance free

Reliable design:
- Well proven experience with SF₆ insulation technology
- Dimensioned to withstand phase-to-earth voltage at atmospheric internal gas pressure
- Earthquake resistant
- Computer technology and finite elements analysis to study electric field, mechanical stresses and seismic phenomena
- Quality system complying with ISO 9001

Advantages:
- Operation reliability, operation safety
- Pressure relief device
- Remote supervision of insulation condition by monitoring internal gas density
- No ageing

Special Optional available on request:
- Composite Grey insulator (Standard is equipped with Porcelain Brown)

Gas Insulated Current Transformer
TAG

Gas Insulated Voltage Transformer
TVG

Gas Insulated Combined Measuring Transformer
AVG

TAG 145 kV
TVG 145 kV
AVG 145 kV
## Electrical Characteristics

For all types of current transformers:
- Primary current: up to 4000 A
- Thermal current: up to 63 kA for 1 s
- Number of cores: from 1 to 4

For all types of voltage transformers:
- Metering accuracy class: 0.2 - 0.5 - 1
- Protection accuracy class:
  - 5P - 10P - TPY - TPX - TPZ for current transformer
  - 3P - 6P for voltage transformer

Note: B and C can change according to HV primary terminals used.

### Test Voltages

<table>
<thead>
<tr>
<th>Highest system voltage</th>
<th>Power frequency</th>
<th>LIWL (kV (r.m.s.))</th>
<th>SIWL (kV (peak))</th>
<th>Overall Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAG 72</td>
<td>72.5</td>
<td>140</td>
<td>350</td>
<td>A: 1560, B: 755, C: 1140, weight: 240 kg</td>
</tr>
<tr>
<td>TVG 72</td>
<td>1660</td>
<td>500</td>
<td>1660</td>
<td>390 kg</td>
</tr>
<tr>
<td>AVG 72</td>
<td>2010</td>
<td>755</td>
<td>1140</td>
<td>440 kg</td>
</tr>
<tr>
<td>TAG 123</td>
<td>123</td>
<td>230</td>
<td>550</td>
<td>290 kg</td>
</tr>
<tr>
<td>TVG 123</td>
<td>2110</td>
<td>500</td>
<td>2110</td>
<td>440 kg</td>
</tr>
<tr>
<td>AVG 123</td>
<td>2460</td>
<td>755</td>
<td>1590</td>
<td>490 kg</td>
</tr>
<tr>
<td>TAG 145</td>
<td>145</td>
<td>275</td>
<td>650</td>
<td>300 kg</td>
</tr>
<tr>
<td>TVG 145</td>
<td>2260</td>
<td>50</td>
<td>2260</td>
<td>450 kg</td>
</tr>
<tr>
<td>AVG 145</td>
<td>2610</td>
<td>755</td>
<td>1740</td>
<td>500 kg</td>
</tr>
<tr>
<td>TAG170</td>
<td>170</td>
<td>325</td>
<td>750</td>
<td>350 kg</td>
</tr>
<tr>
<td>TVG 170</td>
<td>2410</td>
<td>500</td>
<td>2410</td>
<td>500 kg</td>
</tr>
<tr>
<td>AVG 170</td>
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<td>755</td>
<td>1890</td>
<td>550 kg</td>
</tr>
<tr>
<td>TAG 245 - 300</td>
<td>245</td>
<td>460</td>
<td>1050</td>
<td>500 kg</td>
</tr>
<tr>
<td>TVG 245</td>
<td>3550</td>
<td>600</td>
<td>3550</td>
<td>600 kg</td>
</tr>
<tr>
<td>AVG 245</td>
<td>(300)</td>
<td>460</td>
<td>850</td>
<td>650 kg</td>
</tr>
<tr>
<td></td>
<td>245</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LIWL = rated lightning impulse voltage
SIWL = rated switching impulse voltage