



High dielectric strength without any further external measures

Optimum protection of the vacuum interrupter from moisture, dust and external damage

Suitable for different climatic conditions and altitudes of site

High reliability and long life





Easy adaption to circuit-breaker

Maintenance-free

High quality standard

Manufacturing Execution System (MES) enabled

Efficient increase of the dielectric strength without usage of green-house gas





For indoor application (standard)

PT1	P3	P4	P4-S
VGE4 / VG4/ VG4-S/ VGE4-S	VG4 / VG4-S / VG6	VG5 / VG4 / VG4-S	VG5 / VG4
12 / 17,5 kV	12 / 17,5 kV	24 kV	24 kV
1250 A	1600 A	1250 A	1250 A
31,5 kA	40 kA	25 kA	20 kA
95 / 42 kV ¹⁾	95 / 42 kV ¹⁾	125 / 50 kV ¹⁾	125 / 50 kV ¹⁾
50.000 ²⁾	30.000 ²⁾	30.000 ²⁾	30.000 ²⁾



For indoor application (high current)

PT2	P2	P5	P6	P7
VGE4-S / VG6	VG4-S / VG6	VG4-S / VG6	VG6 / VG8 / VG8-S	VG7
12 / 17,5 kV	12 / 17,5 kV	24 kV	36 / 40,5 kV	12 / 17,5 kV
3150 A ¹⁾	3150 A ¹⁾	2500 A ¹⁾	2500 A	3150 A ¹⁾
40 kA	40 kA	31,5 kA	40 kA	50 kA
95 / 42 kV ²⁾	95 / 42 kV ²⁾	125 / 50 kV ²⁾	200 / 95 kV ²⁾	95 / 42 kV ²⁾
50.000 ³⁾	30.0003)	30.000 ³⁾	30.000 ³⁾	30.0003)



²⁾ Rated lightning impulse withstand voltage / rated power frequency withstand voltage



³⁾ Mechanical operating cycles

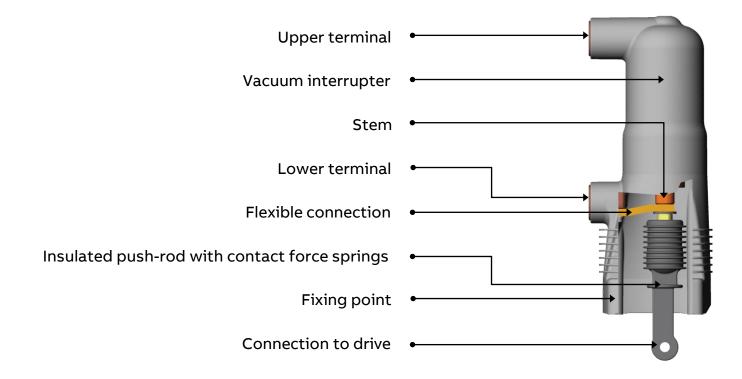
For outdoor application

ОРО	OP1	OP2
12 kV	15 / 27 kV	38 kV
630 A	1000 A ¹⁾	1200 A ¹⁾
20 kA	16 / 12 kA ¹⁾	16 kA ¹⁾



Innovative Technology

Schematic diagram





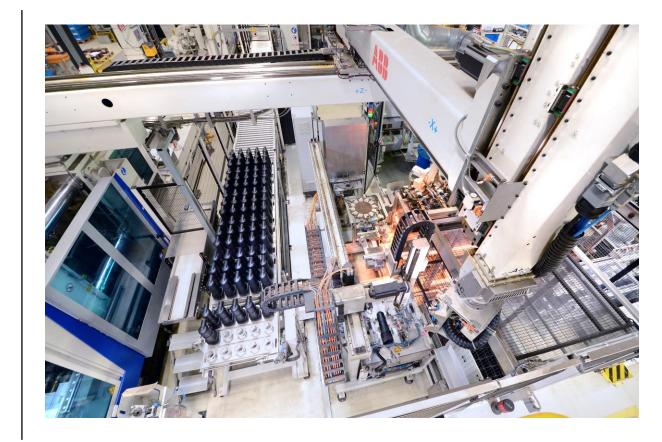
State-of-the-art manufacturing process

Latest manufacturing methods guarantee process stability and quality at reduced environmental stress

Consistent development of products and processes

Control and monitoring of all essential process parameters

Efficient increase of the dielectric strength without usage of greenhouse gas





Quality control

Verification of dimensional conformity

Measurement of voltage drop across the pole

Mechanical function test

Checking of contact spring force

Examination by visual assessment





Applications as core components

The applications as core components include

- Power plants
- Transformer substations
- Chemical industry
- Steel industry
- Automobile industry
- Airport power supply
- Shipbuilding
- Power supply to buildings











Vacuum Interrupters and Embedded Poles from ABB

Our values for the customer

Quality & Support



Reliability & Performance



Innovation



- Individual customer solutions and support (e.g. short leadtimes)
- Full access to technical competence and test labs (e.g. type test support)
- Dedicated customer support for day-to-day issues
- Latest production and extended quality methods with high degree of automation (e.g. series X-ray check)
- Benefit from the large production volume (global supplier base with full risk management)
- Proven in all ABB vacuum products
- Innovations on ABB components give competitive advantages for our partners
- Full in-house contact production and material control (z.B. batch-wise real-life making/breaking tests)
- Full access to latest embedding technologies

The right core component for your apparatus



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