



HV CABLE OIL ISOLATOR CALL +44 (0)1424 205140

**for all your Oil filled Cable Monitoring Needs
or write to hvtest@drallim.com**

This isolator is used to interconnect the insulation oil contained within a high voltage cable to a pressure gauge system used for the measurement of the oil pressure in the cable.

The materials used in the construction of this Isolator are the same as those used in other Drallim measurement instruments, which are used around the world and that are built to be compliant with National Grid standards, particularly NGTS 3.5.10. The body of the isolator is made from opaque PVDF, the electrical properties of which are summarised in the adjacent table. Auxiliary cables installed on the National Grid's Transmission systems of up to 400kV are normally insulated to satisfy a rating of 15 kV. The HV Cable Oil Isolator has been specified to be compliant with this rating.

About Drallim Industries Ltd - Drallim Utilities division provides customised remote monitoring solutions, capable of operating in demanding environmental conditions, which provide users with access to reliable condition status information of field based plant and equipment.

We have a comprehensive range of industry proven product, software and service based solutions for the remote monitoring of high voltage (up to 400kV) pressurised cables and GIS switchgear, providing rapid access to up-to-the-minute operational information such as alarm conditions and cable operational data to enable the effective management of system assets.



Properties of Isolation Material (DIN EN 60112)

Isolation Material	PVDF Opaque
Dielectric Constant (10 ⁶ Hz)	8
Dielectric Loss Factor (10 ⁶ Hz)	0.06
Specific Volume Resistance	10 ¹⁴ ohm cms
Surface Resistance	10 ¹³ Ohms
Dielectric Strength	10-60kV/mm
Resistance to Tracking	Test Class KA 1

HV Cable Isolator Specification

Test Voltage	40kV
Test Time	1 minute
Isolator Length	80 mm
Isolator Diameter	45mm
Pressure Tested	7 Bar (Absolute)

Flange Details

Flange Material	304 Stainless Steel
Hydraulic Connection Thread	G ¼ BSP

V2.13.02.13

**Drallim designs, manufactures, installs and services Oil Filled
Cable monitoring systems for voltages up to 400kV**

Drallim Industries Limited

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The Drallim Group

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