

3X ENGINEERING

ONLINE SF6 LEAK SEALING SOLUTION FOR FLANGE REPAIR



REFLANGEKIT®

Gas Insulated Substation (G.I.S)



INNOVATIVE REPAIR SOLUTIONS FOR YOUR INSTALLATIONS


REFLANGEKIT® is a sealing technique designed to capture and seal SF6 leaks on G.I.S flanges, applicable online.

REFLANGEKIT® is a patented concept made of a double shell system that encapsulates the leaking flange. The first soft cover protects the whole flange (including gasket, bolts and nuts), collects and concentrates SF6 leak through the valve (located on the top). The second hard shell (positioned above the soft one) contains 3X specific resin.

REFLANGEKIT® RANGE

Product already designed for many flange types:



 If existing models are not adaptable with your installation, 3X will manufacture it.


CONCEPT

Soft cover |
equipped with valve

Resin |

Hard shell |



 Designed, developed and tested in partnership with EDF (French Electricity Supplier).

REFLANGEKIT® MAIN FEATURES & BENEFITS

- Power stations
- Online repair and under pressure
- Tailor-made for your installation using Finite Element Analysis
- Suitable for many flange geometries
- Suitable for aluminium, stainless steel, ceramic and carbon steel materials
- Non-invasive system (none risk of resin intrusion into the flange)
- Flange, bolt and screw system protection
- Easy disassembly without damage
- High-quality product certified (many pressure and aging tests performed)
- Cost-effective product (costly shutdown avoided)
- Can also be used as preventive solution
- Installation by 3X specialists to guarantee the sustainability of the product
- Already used and approved by many companies around the world

REFLANGEKIT® IMPLEMENTATION



1
Surface preparation
Sa2½ / St3 and
roughness Rz > 60 µm



2
Leak sealing with
soft cover application
and valve



3
Hard shell installation



4
3X resin injection



5
Valve plugged
and sealed

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