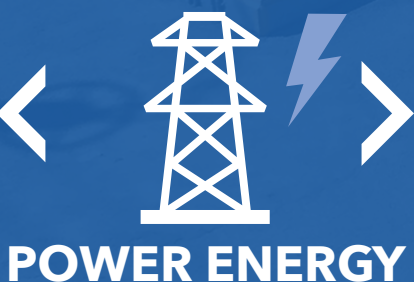


# 3X ENGINEERING

## REFLANGEKiT®

Gas  
Insulated  
Substation  
(G.I.S)

### ONLINE SF6 LEAK SEALING SOLUTION FOR FLANGE REPAIR



-  Many flange geometries
-  SF6 gas
-  High voltage
-  °C -50°C to +65°C
-  °F -58°F to +149°F
-  Power stations



**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:

SIEMENS

AREVA

VATECH

ABB

Westinghouse



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



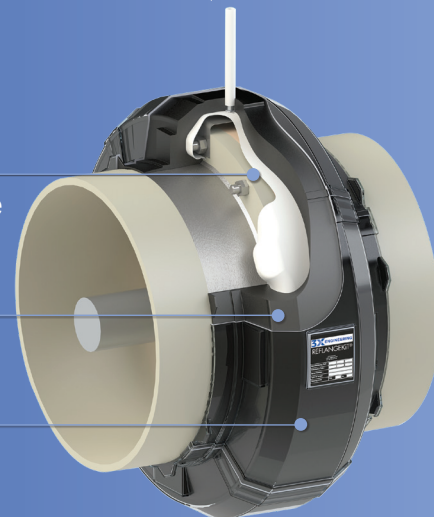
Designed, developed and tested in partnership with EDF (French Electricity Supplier).

## REFLANGEKiT® CONCEPT

Soft cover |  
equipped with valve

Resin |

Hard shell |



## 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
- › Flange, bolt and screw system protection
- › Easy disassembly without damage
- › Non-invasive system (none risk of resin intrusion into the flange)
- › 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

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## REFLANGEKiT® IMPLEMENTATION



Surface preparation  
Sa2½ / St3 & roughness  
Rz > 60 µm (2.4 mil)



Leak sealing with  
soft cover application  
and valve



Hard shell installation



3X resin injection



Valve plugged  
and sealed

**3X**  
ENGINEERING



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