Pétrole Gaz Maintenance Équipements
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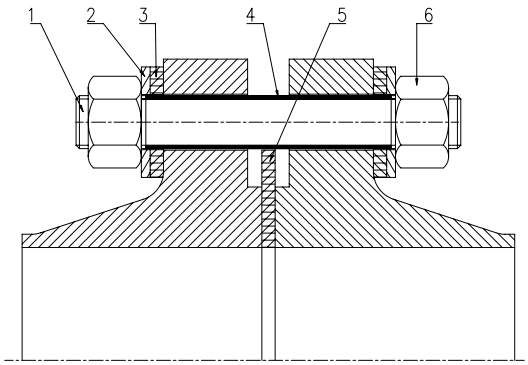
KI 100 and KI 101 INSULATING KITS

In order to achieve the electric insulation between 2 piping parts joined by flanges.

Insulating kits can be used on every device using standardized flanges in compliance with the NF E 29-203, NF E 29-209 or ASME B16-5 norms: piping, faucets, filters, lids… They can bear an electric strain's tension of 2,5 kV, it has been tested in accordance with the PGME try specification.
Thread stems are manufactured in their central part so as to receive a heat-retractable sleeve. This technique permits to keep both the standard nuts and bolts size and the mechanical characteristics of the assembly.
The KI 100 type is intended for flanges with a heightened joint face (RF) and the KI 101 type is intended for flanges with an annular joint face (RJ).
They are compatible with the following fluids : hydrocarbons, gas, water.
Possibility of special manufactures: stainless steel thread stems and bolts, high temperature special joints.

Rep	Designation	Material
1	Thread stems	Steel with zinc-coating chromium plated
2	Metal ring	Steel with zinc-coating
3	Insulating ring	Stratified phenoplaste or glass/epoxy
4	Insulating sleeve	Reticuled polymer
5	Insulating joint	See below
6	Nut	Steel with zinc-coating chromium plated



INSULATING JOINT

Depending on the fluid and on the type of flanges, different materials are used.

GAS, HYDROCARBONS and RF FLANGES (KI 100): the joint is made up of 3 layers joined by gluing under press which allows to ensure the electric insulation and the tightness. The main layer is a phenoplaste laminate that receives 2 joints fiberglass strengthened aramid fibers.

DRINKING WATER and RF FLANGES (KI 110): joint made of one main part in high density polyéthylène, alimentary quality, ensuring both the insulation and the tightness.

STEAM: the joint as well as the insulating discs are realized in high temperature composite with 2 tightness joints for high temperature. The flanges are especially manufactured.

GAS, HYDROCARBONS and RJ FLANGES (KI 101): the joint is manufactured in a stratified phenoplaste plate, then dressed of an epoxy painting layer.

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