

INSULATING JOINTS



rok założenia: 1979

RADIATYM[®]

MONOLITHIC INSULATING JOINTS

- to be applied oil & gas networks, overhead and underground industrial
- used for electrical insulation of pipeline section, reducing and gauging station, pumping station and other structure
- do not require supervision or periodical maintenance
- **QUALIFICATION of UDT** o/Gliwice (Office of Technical Inspection, Branch in Gliwice, Poland) no. UC-07-76-E/1-11
- **CERTIFICATE OF QUALITY ASSURANCE APPROVAL** ny INiG Kraków (see above) for conformance with **PED 2014/68/UE** in the scope of H module
- **ISO 9001** in the scope of design, manufacturing of PE-Steel connections, monoblock isolating joints, linear compensators type KLR and isolating flange connections IPK for gas, water and liquid fuel transport and distribution grids, manufacturing of steel constructions, bodies and pipes
- Certificate Inspection of a welding shop acc. **EN ISO 3834-2**
- Certificate **System of Transferring Material Markings**
- Certificate Conformity with **ATEX**

MECHANICAL PROPERTIES

Excellent mechanical networks thanks to compact structure in a statically favourable form using and interlayer (insulator) of epoxy-board, the body of the joint is made as a structure welded of thick metal sheets or forgings (unalloyed or low-alloy steel) conforming with EN and ASME). Multiple test and long-standing experience confirm the correctness of the applied structural solution

ELECTRICAL PROPERTIES

A perfect closing structure in the area of the head of insulating joint, electrical transition with the use of a high quality insulating materials; electrical resistance measured at constant voltage **1000 V is 10 MΩ up to 1 GΩ and more.**

The insulating joint can be produced in the following versions of dielectric strength:
from 5 kV up to 40 kV (AC); 50 Hz or 60 Hz

The application of an external or internal spark gap effectively protects the zone of insulating interlayers against damage e.g. as a result of an atmospheric discharge.

CALCULATIONS

As standard acc to WUDT/UC/2003; ASME Section VIII Division 1, Appendix 2, Additional values of external load (bending moment, torsional moment, axial strength) may be suggested by the client.

MATERIALS

- pipes used for welding acc. to EN, API, ASTM and other;
- steel elements (rings) are made from plates or forgings
- O-ring sealing - resistant to ageing and matched for the working medium from the point of view of chemical and thermal resistance
- insulation material - glass epoxy PCE (G10/G11) acc. to NEMA or PN-EN 60893

SCOPE OF EXECUTION

practically without of limitation above the data included in the table of dimensions;
for low, medium, increased-medium, high pressure and pressure above 10 MPa
ANSI 150 (20 bar), ANSI 300 (51 bar), ANSI 600 (102 bar), ANSI 900 (153 bar), ANSI 1500 (255 bar), ANSI 2500 (425 bar)]
are also within our production capacity.

SCOPE OF APPLICATION

for gas pipelines, oil products, oil derivatives, chemicals, drinking water, sea water, etc.
mines and underground storage of gas, explosion endangered zones ;
while ordering one should determine the type of medium and working parameters

EXTERNAL COATING

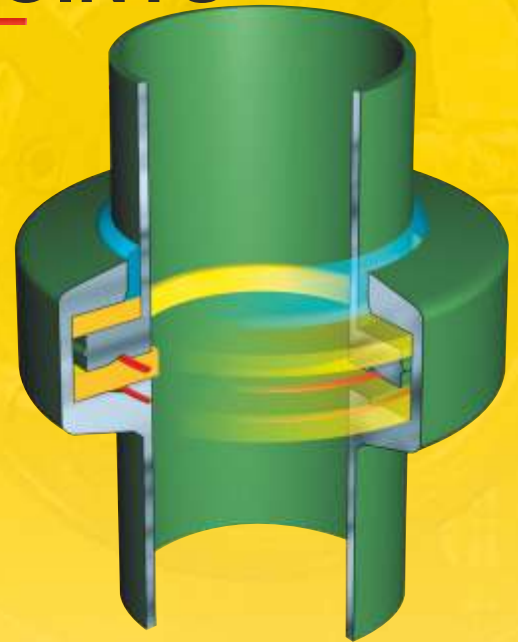
epoxy or polyurethane coating acc. to PN EN 10290, PN-EN ISO 12944
thermoshrinkable coating, e.g. CANUS or REIHEM acc. to DIN 30672, PN EN 12068, or according to customer's requirements

INTERNAL COATING

as standard, epoxy coating acc. to PN EN 10301, or according to customer's requirements

CONTROL AND ACCEPTANCE

as standard, every insulating joint is tested in accordance with norm EN 1594:2011 or client requirements.
The test results are included in certificate 3.1 acc. to EN 10204, optionally certificate 3.2 acc. to EN 10204.



Established in 1979

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