GALPERTI ENGINEERING
and Flow Control

The Original

G-JOINT - Pipeline Insulating Joints
Galperti G-JOINT monolithic insulating joints are used to electrically isolate sections of a pipeline to ensure full efficiency to cathodic protection systems against corrosion. Galperti G-JOINT monolithic insulating joints are designed, manufactured and tested in full compliance with the most stringent international Standards and Clients’ specifications.

QUALITY ASSURANCE
Our facility is accredited with ISO 9001 Certified Quality System. This ensures a close control over all production and manufacturing stages.

DESIGN AND CALCULATIONS
Galperti G-JOINT monolithic insulating joints are designed in accordance with ASME VIII Div.1 and applicable Codes (ASME B31.3, 31.4, 31.8), or according to Clients’ specific requirements. Finite Elements Analysis (with ANSYS software) available on request.

SIZE RANGE
From ½” to 56”

PRESSURE RATING
From PN 25 to PN 100. Other pressure ratings available upon request.

TYPE
Butt Weld, BW / Fillet Weld, FW

MATERIALS
- PIPE SECTIONS
  - Carbon steel pipes in accordance with API, ASTM, DIN and other standards
  - Rolled plates longitudinally arc welded
- BODY
  - Forged materials or seamless ring made of plate material, depending upon requirements
- SEALING
  - Seals of aging resistant material from nitrile, fluoride and silicone elastomers in accordance with ASTM D-2000
- INSULATING MATERIALS
  - Epoxy-glass laminates or epoxy-glass prefabrications in accordance with ASTM D-709
- COATINGS
  - Internal surfaces: epoxy resins or according to Clients’ specific requirements
  - External surfaces: epoxy primers, epoxy paints or according to Clients’ specific requirements

WELDING AND NON DESTRUCTIVE TESTING
All welding processes are in accordance with ASME IX and are certified by independent and Internationals Authorities. Non destructive tests using dye penetrants, magnetoscopic, x-rays and ultrasonic inspections in accordance with ASME VIII, ASME V, ASME B16.34, ASME SA-388 and applicable Codes.

TESTING
According to the agreed requirements, typically:
- Hydrostatic pressure test (typically 1.5 times the rated pressure)
- Electrical resistant test in dry air (typical 5MΩ with 1kV d.c.)
- Dielectric strength test (typical 3kV with 50Hz a.c. for 1’)
- Dimensional checks

Other test according to Clients’ specific requirements such as:
- Hydrostatic pressure and Bending test
- Torsional test
- Hydrostatic Fatigue test
- Combined Hydro-Thermo-Bending test
As part of a process of on-going product's development, we reserve the right to amend and change any data of this catalogue without prior notice. All values given are for general guidance only. For specific applications please contact Galperti Engineering office.

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