PIPELINE INSULATING JOINT

IMG International srl is the sales office of Officine Binda & Galperti srl, flanges and insulating joints manufacturer. Off. Binda & Galperti is a leader company which has an exclusive management system. In this way they can design and produce insulating joints completely: from forged body, welding, painting, assembly and testing of the finished item. Pipeline insulating joints are used both for onshore and offshore projects. Saving in the overall cost of corrosion system is just one of the benefits of using this kind of joint.

PIPELINE INSULATING JOINT are used worldwide for permanently controlling the flow of electrical currents or electrically isolating pipe sections in pipes and piping systems. Effective management of cathodic protection programs results from the use of these highly reliable substitutes for flanged insulating systems.

Other benefits include protection against earthing currents at domestic and industrial premises, isolation of pipeline cathodic protection system, and to ensure that cathodic protection or stray currents do not cause increased corrosion.

The PIPELINE INSULATING JOINT are designed to meet and satisfy very high pressure services up to 20,000 psi. Upon request, we can supply MONO-BLOCK INSULATING JOINTS according to your specification.

THE PIPELINE INSULATING JOINT
- eliminates short circuits
- eliminates field assembly
- eliminates maintenance
- is less expensive
- is coated both internally and externally
- is 100% electrically tested
- is completely weld inspected
- is manufactured in accordance with ISO 9001:2000 specifications
# STANDARD DESIGN CONSTRUCTION

<table>
<thead>
<tr>
<th>DN</th>
<th>Wtk</th>
<th>Length</th>
<th>DN</th>
<th>Wtk</th>
<th>Length</th>
<th>DN</th>
<th>Wtk</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3.9</td>
<td>350</td>
<td>2</td>
<td>3.9</td>
<td>350</td>
<td>2</td>
<td>3.9</td>
<td>350</td>
</tr>
<tr>
<td>3</td>
<td>4.8</td>
<td>350</td>
<td>3</td>
<td>5.5</td>
<td>350</td>
<td>3</td>
<td>5.5</td>
<td>350</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>350</td>
<td>4</td>
<td>6.0</td>
<td>400</td>
<td>4</td>
<td>6.0</td>
<td>400</td>
</tr>
<tr>
<td>5.6</td>
<td>400</td>
<td>350</td>
<td>6</td>
<td>7.1</td>
<td>500</td>
<td>6</td>
<td>7.1</td>
<td>500</td>
</tr>
<tr>
<td>8</td>
<td>8.2</td>
<td>500</td>
<td>8</td>
<td>8.2</td>
<td>500</td>
<td>8</td>
<td>8.2</td>
<td>500</td>
</tr>
<tr>
<td>10</td>
<td>9.3</td>
<td>600</td>
<td>10</td>
<td>9.3</td>
<td>600</td>
<td>10</td>
<td>9.3</td>
<td>600</td>
</tr>
<tr>
<td>12</td>
<td>10.3</td>
<td>600</td>
<td>12</td>
<td>10.3</td>
<td>600</td>
<td>12</td>
<td>10.3</td>
<td>600</td>
</tr>
<tr>
<td>14</td>
<td>12.7</td>
<td>600</td>
<td>14</td>
<td>12.7</td>
<td>600</td>
<td>14</td>
<td>12.7</td>
<td>600</td>
</tr>
<tr>
<td>16</td>
<td>12.7</td>
<td>700</td>
<td>16</td>
<td>12.7</td>
<td>700</td>
<td>16</td>
<td>12.7</td>
<td>700</td>
</tr>
<tr>
<td>18</td>
<td>12.7</td>
<td>700</td>
<td>18</td>
<td>12.7</td>
<td>700</td>
<td>18</td>
<td>12.7</td>
<td>700</td>
</tr>
<tr>
<td>20</td>
<td>12.7</td>
<td>800</td>
<td>20</td>
<td>12.7</td>
<td>800</td>
<td>20</td>
<td>12.7</td>
<td>800</td>
</tr>
<tr>
<td>24</td>
<td>14.3</td>
<td>800</td>
<td>24</td>
<td>14.3</td>
<td>800</td>
<td>24</td>
<td>14.3</td>
<td>800</td>
</tr>
<tr>
<td>30</td>
<td>15.9</td>
<td>1000</td>
<td>30</td>
<td>15.9</td>
<td>1000</td>
<td>30</td>
<td>15.9</td>
<td>1000</td>
</tr>
<tr>
<td>36</td>
<td>19.1</td>
<td>1100</td>
<td>36</td>
<td>19.1</td>
<td>1100</td>
<td>36</td>
<td>19.1</td>
<td>1100</td>
</tr>
<tr>
<td>48</td>
<td>20.6</td>
<td>1200</td>
<td>48</td>
<td>20.6</td>
<td>1200</td>
<td>48</td>
<td>20.6</td>
<td>1200</td>
</tr>
</tbody>
</table>

# CUSTOMER SPECIFICATION

- Size
- Materials
- Wall Thickness
- Fluid
- Type of installation
- Design Pressure
- Design Temperature
- Corrosion Allowance
- Dielectric Resistance
- Electric Insulation
- Design Loads
- Design Life
- Testing
- Coating

# INSTALLATION

**ABOVEGROUND / UNDERGROUND**

**HYDROSTATIC TEST**

1.5 Times the Design Pressure

**DIELECTRIC TEST**

1.5 to 5 KV @ 1 minute AC 50÷60 Hz
(Special 20 KV @ 1 minute AC 50÷60 Hz)

**ELECTRIC INSULATION TEST**

> 100 MΩ @ 1000 Volt DC
(Special > 100 GΩ @ 5000 Volt DC)

**NDE TEST**

WA-WB-WC: MT & UT, Bevel Ends MT
According to ASME V

**WELDS**

WA-WB-WC: According To ASME IX

**CERTIFICATION**

EN 10204 - 3.1 (EN 10204 - 3.2 if request)

**APPLICATION**

Suitable for flow media such as natural gas, crude oil, kerosene, gasoline, propane, butane, coal gas, ethylene, nitrogen and drinking water - Media such as sour gas and oxygen require special material and design. Standard versions up to maximum +80°C constant temperature - Special versions for district heating pipelines up to +150°C.

# ALLOWABLE LOADS

Standard Total Design Load 50 % Pipe SMYS
(Special Total Design Load 75 % Pipe SMYS)
(Special Total Design Load 95 % Pipe SMYS)
(Special Total Design Load 100 % Pipe SMYS)

# PIPELINE INSULATING JOINT SPECIFICATION

**PIPELINE INSULATING JOINTS** shall be boltless and completely factory assembled in accordance with the appropriate requirements of ASME, ASTM, API, DIN and BS codes.

Insulation material is a thermosetting fibreglass epoxy material. NEMA G10/11. Sealing system shall be by two Standard “O” ring seals. Interior and exterior coating by epoxy with a thickness of 150 microns.

- Dielectric Resistance @ 5 KV
- Isolation Resistance > 50 MΩhm
- Design According to ANSI/ASME B31.3/4/8
- Dimens. ASME VIII Div.1

---

**IMG INTERNATIONAL srl**

SALES OFFICE
Via Masero, 57
10010 SCARMAGNO (TO) - ITALY
Phone +39 0125.639289
Fax +39 0125.712640
info@imginternational.it

**OFFICINE BINDA & GALPERTI Srl**

FORGING - MANUFACTURING PLANT
Via Roma, 43
23813 CORTENOVA (LC) - ITALY
Phone +39 0341.901333
Fax +39 0341.901300
obg@officinebindagalperti.com

www.imginternational.it