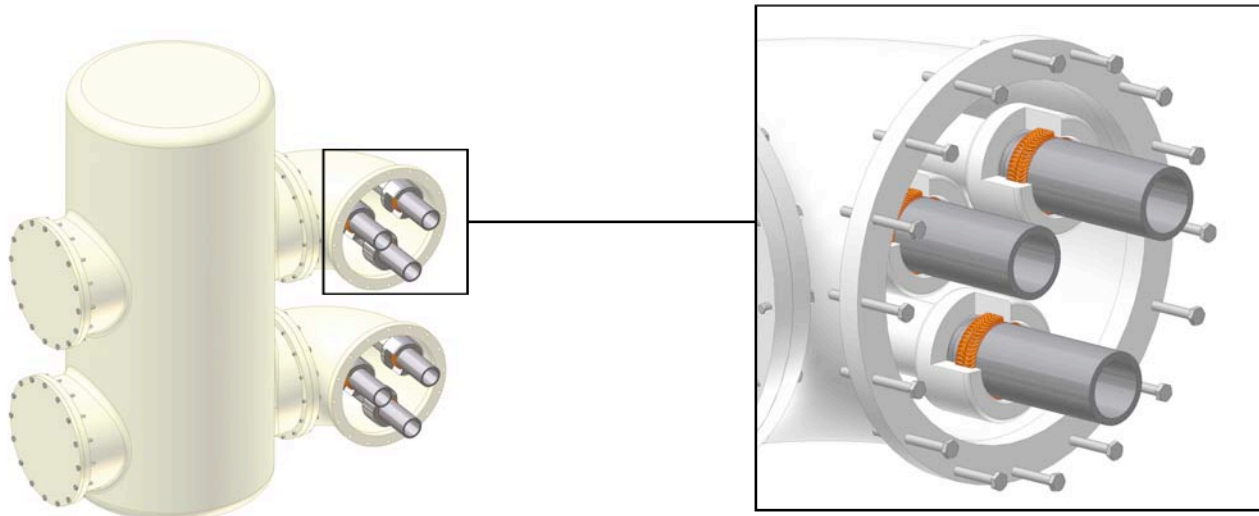


## BAL CONTACT™ SPRINGS FOR GAS-INSULATED SWITCHGEAR

The gas-insulated switchgear (GIS) is based on the principle of complete enclosure of all energized parts in a metallic encapsulation, which shields them from the external environment. Compressed sulphur hexafluoride (SF<sub>6</sub>) gas, which has excellent insulating properties, is employed as the insulating medium between the encapsulation and energized parts.

One of the main objectives of the GIS equipment is compactness. A GIS should also offer personnel safety and operational reliability. Bal Contact™ springs offer all of these advantages and are excellent contact rings to connect-disconnect busbar systems.



### Operating Parameters

|                     |                             |
|---------------------|-----------------------------|
| Connect force:      | < 300 N                     |
| Current:            | 2,500 – 4,000 A             |
| Impulse Current:    | 25,000 – 50,000 A for 3 sec |
| Contact resistance: | R < 0.01 mΩ                 |
| Service:            | Static                      |
| Plug diameter:      | 80 mm                       |
| Mating Material:    | CuZnPb Alloy Silver Plated  |
| Spring Selection:   | 108MB                       |
| Spring Material:    | BeCu Silver Plated          |

### Features of Bal Contact™ spring:

- Multiple point contacts ensure high current-carrying capability.
- Unique configuration enables spring to fit small radial and longitudinal space requirements
- Controlled insertion and removal force makes assembly and installation easy
- High resistance to compression set provides maintenance-free, long life cycle
- Use of simple grooves and minimal part count simplifies connector design
- Canted-coil design permits wide tolerances on mating parts for low production costs
- Springs give outstanding performance in shock, vibration and harsh environments

For more information and technical assistance, consult the Technical Sales Department.

PATENTS: The items described in this page include products that are the subject of issued United States and foreign patents or products where patents are pending, including the following: Patents 6,641,141 B2; 7,210,398 B2; 6,161,838; 5,992,856; 5,134,244  
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