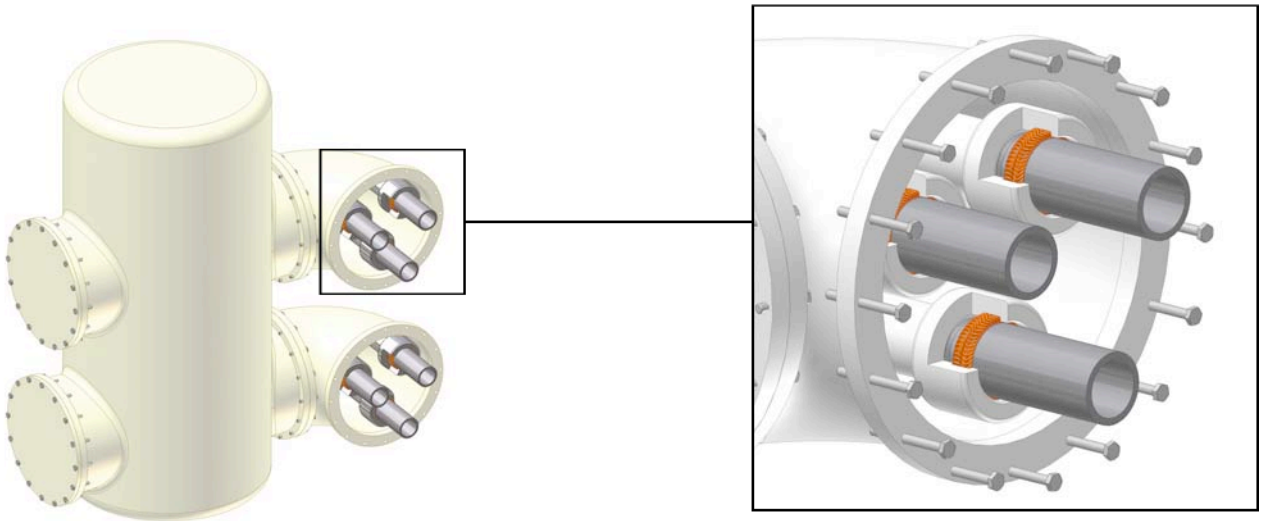
BAL SEAL® ENGINEERING, INC.

PN 290-58

# 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 ($SF_6$) 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.



U.S. Address 19650 Pauling Foothill Ranch, CA 92610-2610 • Phone: (949) 460-2100• Fax: (949) 460-2300
BV Address: Jollemanhof 16, • 1019 GW Amsterdam • The Netherlands • Phone: 31 20 638 65 23 • Fax: 31 20 625 60 18
www.balseal.com

Rev.A 10-22-07 (11-281)