



Insulcap De-gassing (RV) is Heat Shrinkable End Caps, supplied with relief Valve (RV) & are used for sealing High Voltage & Extra High Voltage Cables (33 kV & above) to release the constantly evolving gas generated inside the Cable during transportation & storage in hot climatic conditions.

Features & Benefits :

- Provides additional security to Cables by relieving the pressure generated by Residual gases.
- Automatically releases gas when pressure rises above 1 psi.
- Eliminates possibility of accidental fire caused due to trapped Methane gas while removing the (normal / non relief valved) End caps.
- Possibly to reduce the timing of de-gassing (heating) chamber, thereby savings in energy & time.
- Relief (Non-returnable) valve shall not allow moisture, water, dirt etc. to enter the cable.
- Ensures gas / defect free cables, adds customer satisfaction.
- Each Relief valve is factory tested for gas release.

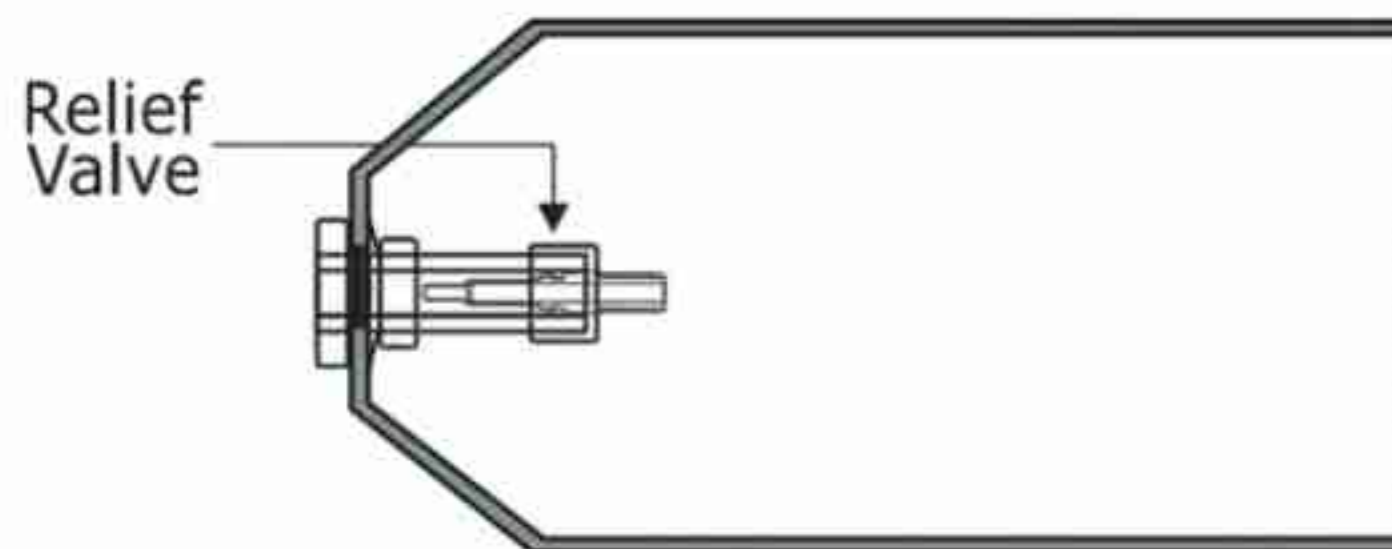
Selection Chart

All dimensions are in mm

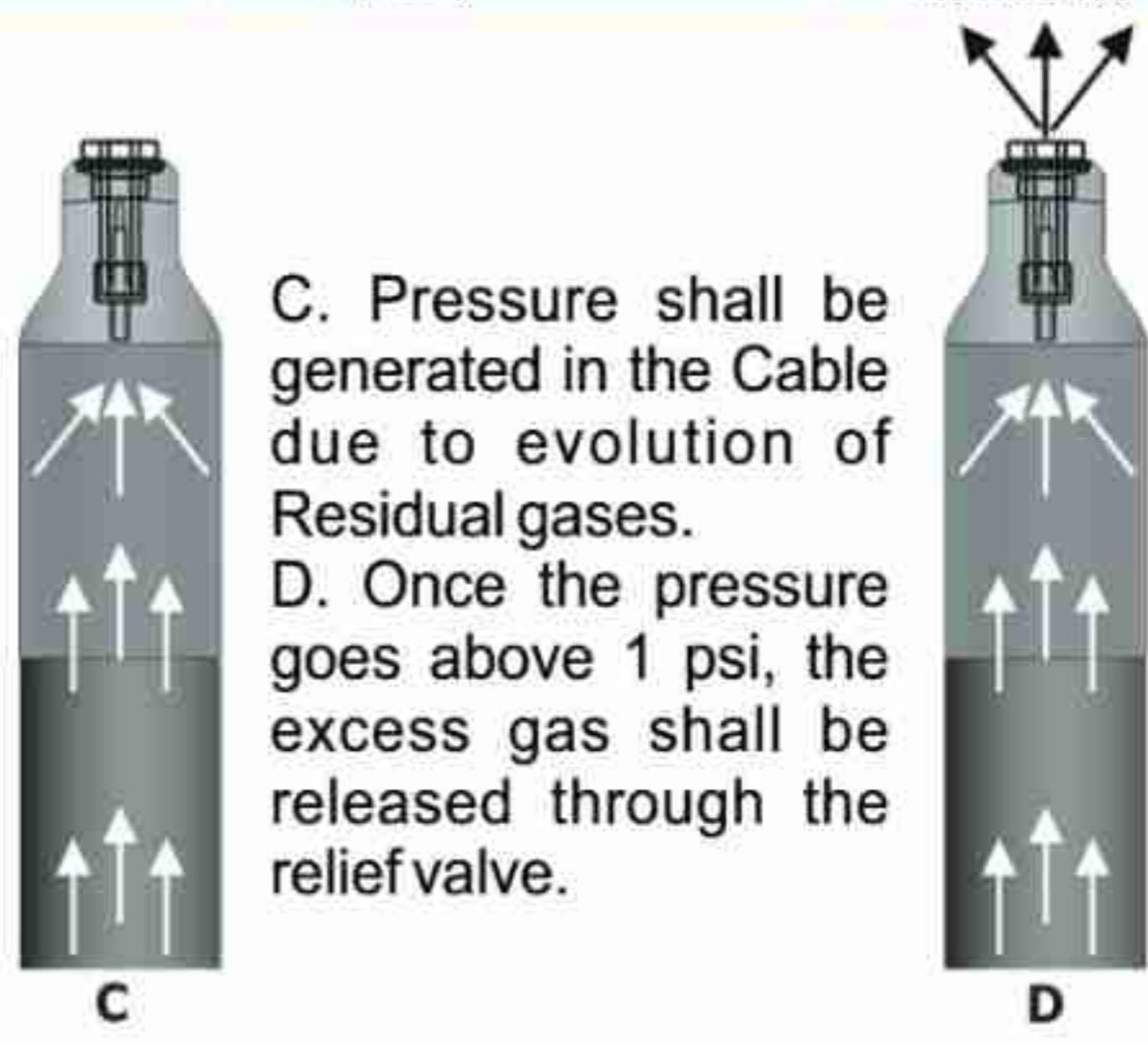
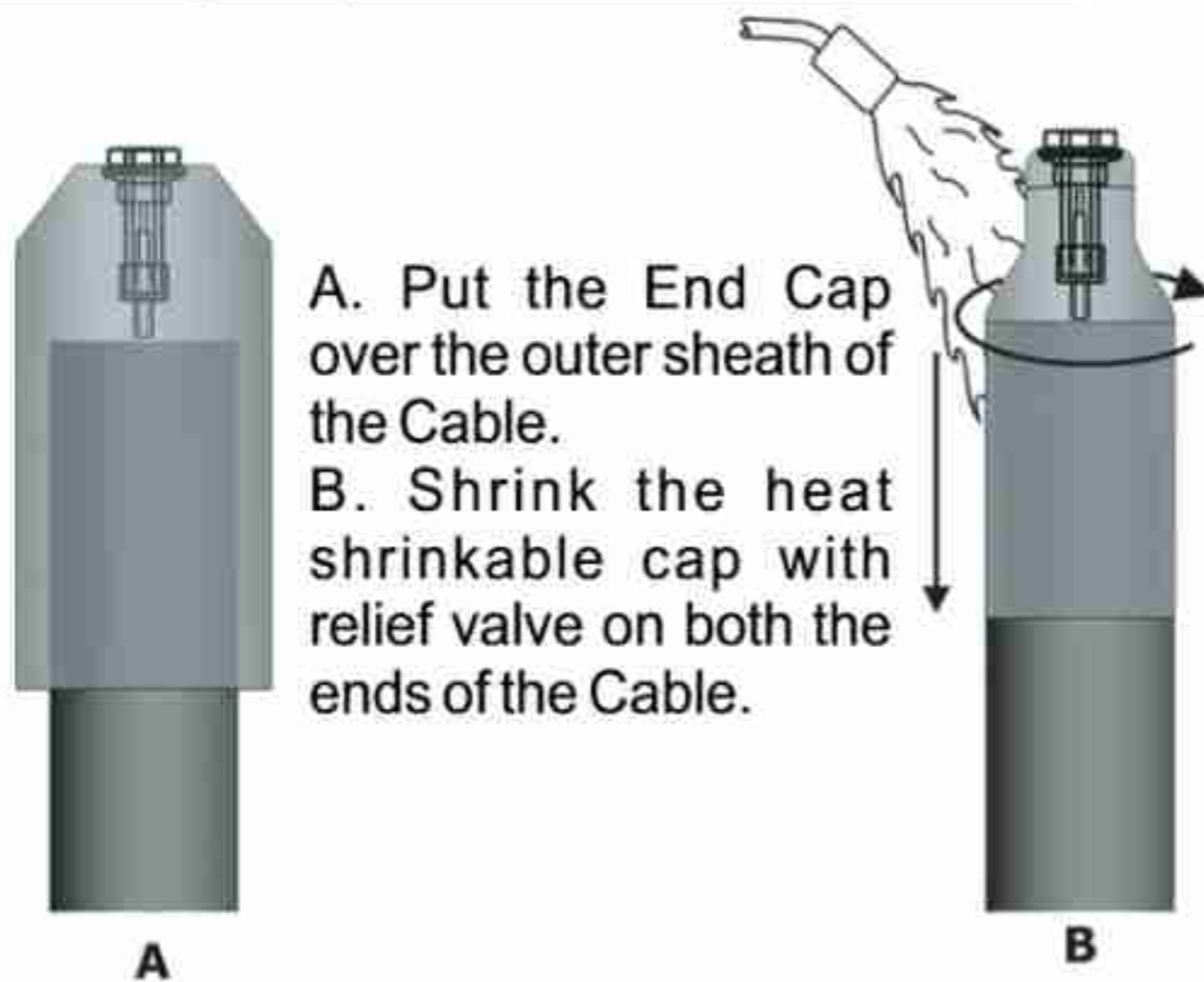
| CODE NO. | (Ds (Min.)) | Df (Max.) | Ls (Min.) | Tf (±10%) | CABLE RANGE |
|--------------|-------------|-----------|-----------|-----------|-------------|
| GEC 102 RV | 30 | 11 | 75 | 2.5 | 12 - 26 |
| GEC 201 RV | 40 | 15 | 90 | 3.3 | 16 - 35 |
| GEC 201 L RV | 40 | 15 | 120 | 3.3 | 16 - 35 |
| GEC 301 RV | 55 | 25 | 125 | 3.8 | 25 - 47 |
| GEC 301 L RV | 55 | 25 | 170 | 3.8 | 25 - 47 |
| GEC 401 RV | 75 | 35 | 140 | 4.0 | 35 - 68 |
| GEC 401 L RV | 75 | 35 | 180 | 4.0 | 35 - 68 |
| GEC 501 RV | 100 | 45 | 160 | 4.0 | 45 - 90 |
| GEC 501 L RV | 100 | 45 | 200 | 4.0 | 45 - 90 |
| GEC 601 RV | 130 | 60 | 160 | 4.6 | 64 - 120 |
| GEC 601 L RV | 130 | 65 | 300 | 4.6 | 67 - 120 |
| GEC 701 RV | 154 | 60 | 165 | 4.6 | 72 - 145 |
| GEC 701 L RV | 154 | 65 | 300 | 4.6 | 70 - 145 |
| GEC 801 RV | 230 | 125 | 220 | 4.0 | 140 - 200 |

D : Internal Diameter | s : as supplied | f : after free recovery

Technical Qualification Report : QR 1023



Working of pressure relief valve:



Technical Specification

| PROPERTIES | VALVE | STANDARD |
|--------------------------------|------------------------------------|------------|
| Tensile Strength | 12 N/mm ² (Mpa) (min.) | ASTM D638 |
| Ultimate Elongation | 350% (min.) | ASTM D638 |
| Water Absorption | 0.2% (max.) | ASTM D570 |
| Accelerated Ageing | (120°C for 500 hrs.) | ASTM D2671 |
| Tensile Strength | 11 N/mm ² (Mpa) (min.) | ASTM D638 |
| Ultimate Elongation | 300% (min.) | ASTM D638 |
| Heat Shock (250°C for 30 min.) | No cracking or flowing | ESI 09-11 |
| Continuous Temperature Limit | -40°C to +100°C | IEC 216 |
| Dielectric Strength | 12 kv/mm. (min.) | ASTM D149 |
| Volume Resistivity | 1 x 10 ¹⁴ Ohm.cm (min.) | ASTM D257 |
| Dielectric Constant | 5 (max.) | ASTM D150 |